REVISED REPORT OF REMEDIAL INVESTIGATION FINDINGS L.E. CARPENTER & COMPANY WHARTON, NEW JERSEY SITE VOLUME II DATA TABLES

June 1990

Prepared for

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W.O. No. 8089-0005

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VOLUME II

DATA TABLES

LIST OF TABLES
(continued)

TABLE 1

RAW MATERIALS INVENTORY AS OF JUNE 22, 1987 AND MAY 30, 1990

TABLE 1: RAW MATERIAL INVENTORY AS OF 6/22/87 AND 5/30/90
L.E. CARPENTER FACILITY, WHARTON, NEW JERSEY

MATERIAL	LOCATION	VESSEL (CAPACITY)	QUANTITY AS OF 6/22/87	QUANTITY AS OF 5/30/90
Naptha	Tank Farm	Tank #1 (15000)	2000 gallons	empty
Dioctyl phthalate (DEHP)	Tank Farm	Tank #2 (15000)	0 gallons	empty
Waste Xylene	Tank Farm	Tank #3 (15000)	1700 gallons	empty
Xylene	Tank Farm	Tank #4 (15000)	2700 gallons	empty
Texanol (an ester alcohol)	Tank Farm	Tank #5 (3000)	2300 gallons	empty
Sancticizer 160**	Tank Farm	Tank #6 (3000)	1100 gallons	empty
Epoxidized Soy Bean Oil	Tank Farm	Tank #7 (10000)	1000 gallons	20 gallons
Boiler Blowdown Water	adjacent bldg 12	Tank	0 gallons	rainwater
Propane	adjacent bldg 12	Tank	200 gallons	removed
No. 6 Fuel Oil	west of bldg 12	Tank E-1 (10000)	0 gallons	10000
No. 6 Fuel Oil	west of bldg 12	Tank E-2 (30000)	15000 gallons	950
Waste MEK and Pigments	west of bldg. 9	Tank E-3 (10000)	1000 gallons	6000
Methyl ethyl ketone (MEK)	west of bldg. 9	Tank E-4 (10000)	1900 gallons	500
Smog Hog Condensate *	between bldg 8 & 9	Tank E-5 (550)	0 gallons	550
Smog Hog Condensate *	east of bldg 14	Tank E-6 (550)	0 gallons	550
Smog Hog Condensate *	east of bldg 14	Tank E-7 (550)	0 gallons	550
Smog Hog Condensate *	between bldg 8 & 9	Tank E-8 (550)	0 gallons	550
Diesel Oil	adjacent bldg 2	Tank E-9 (550)	550 gallons	400
Fragrance	inside bldg. 13	drum	unknown	9500
Sancticizer 141***	inside bldg. 13	drum	500 gallons	removed
PVC Resin (Dispersion)	inside bldg. 13	bags	25000 lbs.	removed
PVC Resin (Blending)	inside bldg. 13	bags	52000 lbs.	removed
Magnesium hydroxide	inside bldg. 13	bags	14000 lbs.	removed
Stabilizers (Ba,Cd,Zn)	inside bldg. 13	bags	3000 gallons	removed
Wetting Agent	inside bldg. 13	bags	900 lbs.	removed
Calcium Carbide	inside bldg. 13	bags	14000 lbs.	removed
Antimony Oxide	inside bldg. 13	bags	1100 lbs.	removed
Zinc borate	inside bldg. 13	bags	250 lbs.	removed
Titanium dioxide	inside bldg. 13	bags	17000 lbs.	removed
Celogen OT (blowing agent)	inside bldg. 13	bags	250 lbs.	removed
ABF-2	inside bldg. 13	drum	55 gallons	removed
Irogel 900	inside bldg. 13	drum	55 gallons	removed
Methyl isobutyl ketone (MIBK)	NW loading dock Bldg. 9	drum	55 gallons	removed
Cyclohexanol	NW loading dock Bldg. 9	drum	55 gallons	removed
Toluene	NW loading dock Bldg. 9	drum	110 gallons	removed
Clear Print Finishes	inside Bldg. 9	50 drums	22000 lbs.	removed
Black ink	inside Bldg. 9	3 pails	15 gallons	removed
Phthalo blue ink	inside Bldg. 9	3 pails	15 gallons	removed
Orange ink	inside Bldg. 9	3 pails	15 gallons	removed
Red oxide ink	inside Bldg. 9	4 pails	20 gallons	removed
Monastral red ink	inside Bldg. 9	11 pails	55 gallons	removed
Yellow ink	inside Bldg. 9	7 pails	35 gallons	removed
Indo yellow ink	inside Bldg. 9	3 pails	15 gallons	removed
Gold ink	inside Bldg. 9	2 pails	10 gallons	removed
Pearl ink (80% MIBK)	inside Bldg. 9	5 pails	25 gallons	removed
Silver Sparkly ink	inside Bldg. 9	1 drum	30 gallons	removed
Isophrone	inside Bldg. 9	1 drum	55 gallons	removed
Miscellaneous inks	inside Bldg. 9	30 drums/pails	400 gallons	removed

NOTES: Underground tanks are denoted with an "E" prefix

* - As of 5/30/90 the Smog Hog Tanks were full of water. Originally these tanks collected plasticizer fumes, primarily di-octyl phthalate.

** - S-160 is butyl benzyl phthalate

*** - S-141 is ethyl hexyl diphenyl phosphate

TABLE 2

SUMMARY OF ANALYTICAL PARAMETERS - SOIL SAMPLES - TEST PITS

TABLE 2: SUMMARY OF ANALYTICAL PARAMETERS - SOIL SAMPLES - TEST PITS
L.E. CARPENTER, WHARTON, NEW JERSEY.

	ANALYTICAL PARAMETERS						
Test Pit Sample #	VO+15	BN+15	TPH	PP Metals	Pesticides/ PCBs	Fingerprint (SBO)	PP+40
TP-1A	X	X		X	X		
TP-1B	X	X		X	X		
TP-2A	X	X		X	X		
TP-2B	X	X		X	X		
TP-3A	X	X		X	X		
TP-3B	X	X		X	X		
TP-4A	X	X		X	X		
TP-4B	X	X		X	X		
TP-5A	X	X		X	X		
TP-5B	X	X		X	X		
TP-6A	X	X		X	X		
TP-6B	X	X		X	X		
TP-7A	X	X		X	X		
TP-7B	X	X		X	X		
TP-8A	X	X		X	X		
TP-8B	X	X		X	X		
TP-9A	X	X		X	X		
TP-9B	X	X		X	X		
TP-10	X	X					
TP-11	X	X					
TP-12	X	X					
TP-13	X	X					
TP-14	X	X					
TP-15	X	X					
TP-16	X	X					
TP-17	X	X					
TP-18	X	X					
TP-19	X	X					
TP-20	X	X					
TP-21	X	X					
TP-22	X	X					
TP-23	X	X					
TP-24	X	X					
TP-25	X	X					
TP-26	X	X					

NOTES: X - Specified test pit sample analyzed for indicated parameter.
VO+15 - Volatile Organics by EPA Method 8240 plus fifteen non-targeted compounds.
BN+15 - Base Neutral Organics by EPA Method 8270 plus fifteen non-targeted compounds.
TPH - Total Petroleum Hydrocarbons by EPA Method 418.1.
PP Metals - Priority pollutant metals by EPA 200 series or comparable ICP EPA Methods.
Pesticides/PCBs - Pesticides and polychlorinated biphenyls (PCBs) by EPA Method 8080.
Fingerprint (SBO) - Hydrocarbon Fingerprint by GC/FID using modified ASTM Method D3328 searching for soybean oil.
PP+40 - Priority Pollutants plus fourty additional compounds includes; volatiles by EPA Method 8240, Base Neutrals and Acid Extractable Organics by EPA Method 8270, Organochloride Pesticides and PCBs by EPA Method 8080, Priority Pollutant Metals plus Cyanide and Phenol.

TABLE 2: SUMMARY OF ANALYTICAL PARAMETERS - SOIL SAMPLES - TEST PITS
L.E. CARPENTER, WHARTON, NEW JERSEY.

	ANALYTICAL PARAMETERS						
					Pesticides/	Fingerprint	
Test Pit Sample #	VO+15	BN+15	TPH	PP Metals	PCBs	(SBO)	PP+40
TP-27	X	X					
TP-28	X	X					
TP-29	X	X					
TP-30						X	
TP-31						X	
TP-32						X	
TP-33	X					X	
TP-34		X				X	
TP-35		X	X				
TP-36		X	X				
TP-37		X				X	
TP-38		X	X				
TP-39	X	X	X				
TP-40		X	X				
TP-41		X	X				
TP-42	X	X					
TP-43	X	X					
TP-44	X	X					
TP-45	.....		NOT SAMPLED		.....		
TP-46	X	X					
TP-47	X	X					
TP-48	X	X		X			
TP-49	.....		NOT SAMPLED		.....		
TP-50A							X
TP-50B							X
TP-51A							X
TP-51B							X
TP-52							X
TP-53							X
TP-54							X
TP-55	X	X					
TP-56	X	X					
TP-57	X	X					
TP-58	X	X					

NOTES:
- X - Specified test pit sample analyzed for indicated parameter.
- VO+15 - Volatile Organics by EPA Method 8240 plus fifteen non-targeted compounds.
- BN+15 - Base Neutral Organics by EPA Method 8270 plus fifteen non-targeted compounds.
- TPH - Total Petroleum Hydrocarbons by EPA Method 418.1.
- PP Metals - Priority pollutant metals by EPA 200 series or comparable ICP EPA Methods.
- Pesticides/PCBs - Pesticides and polychlorinated biphenyls (PCBs) by EPA Method 8080.
- Fingerprint (SBO) - Hydrocarbon Fingerprint by GC/FID using modified ASTM Method D3328 searching for soybean oil.
- PP+40 - Priority Pollutants plus fourty additional compounds includes; volatiles by EPA Method 8240, Base Neutrals and Acid Extractable Organics by EPA Method 8270, Organochloride Pesticides and PCBs by EPA Method 8080, Priority Pollutant Metals plus Cyanide and Phenol.

TABLE 2: SUMMARY OF ANALYTICAL PARAMETERS - SOIL SAMPLES - TEST PITS
L.E. CARPENTER, WHARTON, NEW JERSEY

	ANALYTICAL PARAMETERS						
	VO+15	BN+15	TPH	PP Metals	Pesticides/ PCBs	Fingerprint (SBO)	PP+40
Test Pit Sample #							
TP-59	X	X					
TP-60	X	X					
TP-61	X	X					
TP-62	X	X					
TP-63	X	X		X			
TP-64	X	X		X			
TP-65	X	X		X			
TP-66	X	X		X			
TP-67	X	X		X			
TP-68	X	X		X			
TP-69	X	X		X	X		
TP-70	X	X		X	X		
TP-71	X	X		X	X		
TP-72	X	X		X	X		
TP-73	X	X		X	X		
TP-74	X	X		X	X		
TP-75	X	X		X			
TP-76	X						
TP-77	X	X					
TP-78	X	X					
TP-79	X	X					

NOTES: X - Specified test pit sample analyzed for indicated parameter.
VO+15 - Volatile Organics by EPA Method 8240 plus fifteen non-targeted compounds.
BN+15 - Base Neutral Organics by EPA Method 8270 plus fifteen non-targeted compounds.
TPH - Total Petroleum Hydrocarbons by EPA Method 418.1.
PP Metals - Priority pollutant metals by EPA 200 series or comparable ICP EPA Methods.
Pesticides/PCBs - Pesticides and polychlorinated biphenyls (PCBs) by EPA Method 8080.
Fingerprint (SBO) - Hydrocarbon Fingerprint by GC/FID using modified ASTM Method D3328 searching for soybean oil.
PP+40 - Priority Pollutants plus forty additional compounds includes; volatiles by EPA Method 8240, Base Neutrals and Acid Extractable Organics by EPA Method 8270, Organochloride Pesticides and PCBs by EPA Method 8080, Priority Pollutant Metals plus Cyanide and Phenol.

TABLE 3

SUMMARY OF ANALYTICAL PARAMETERS - SOIL SAMPLES - HAND AUGER

TABLE 3: SUMMARY OF ANALYTICAL PARAMETERS - SOIL SAMPLES - HAND AUGER
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November, 1989

	ANALYTICAL PARAMETERS					
Hand Auger Sample #	VO+15	BN+15	TPH	PP Metals	Pesticides/ PCB's	Fingerprint (SBO)
HA-1	X	X	X			X
HA-2	X	X		X		
HA-3	X	X		X		
HA-4	X	X		X		
HA-5	X	X		X		
HA-6	X	X		X		
HA-7	X	X		X		
HA-8	X	X		X		
HA-9	X					
HA-10	X					
HA-11	X					
HA-12	X					
HA-13	X					
HA-14	X					
HA-15	X					
HA-16	X	X		X		
HA-17	X	X		X		
HA-18	X	X		X		
HA-19	X	X		X		
HA-20					X	
HA-21					X	
HA-22					X	
HA-23			X			
HA-24			X			
HA-25			X			

NOTES: X - Specified hand auger sample analyzed for indicated parameter.
VO+15 - Volatile Organics by EPA Method 8240 plus fifteen non-targeted compounds.
BN+15 - Base Neutral Organics by EPA Method 8270 plus fifteen non-targeted compounds,
TPH - Total Petroleum Hydrocarbons by EPA Method 418.1.
PP Metals - Priority pollutant metals by EPA 200 series or comparable ICP EPA Methods.
Pesticides/PCBS - Priority Pollutant Organochloride Pesticides and Polychlorinated Biphenyls (PCBs) by EPA Method 8080.
Fingerprint (SBO) - Hydrocarbon fingerprinting by GC/FID using modified ASTM Method D3328 search for soybean oil.

TABLE 4

SUMMARY OF ANALYTICAL PARAMETERS - GROUNDWATER

TABLE 4: SUMMARY OF ANALYTICAL PARAMETERS - GROUNDWATER
L.E. CARPENTER, WHARTON, NEW JERSEY.

	FIRST ROUND: September/October 1989		SECOND ROUND: January 1990	
	PP+40	TPH/ Fingerprint	PP+40	TPH/ Fingerprint
Groundwater Sample #				
MW-1	X		X	
MW-2	X		X	
MW-3	X		X	
MW-4	X		X	
MW-5	X		X	
MW-6			X	
MW-7			X	
MW-8	X		X	
MW-9			X	
MW-10			X	
MW-11s		X		X
MW-11i	X		X	
MW-11d	X		X	
MW-12s	X	X	X	
MW-12i	X		X	
MW-13s	X		X	
MW-13i	X		X	
MW-14s	X		X	
MW-14i	X		X	
MW-14d	X		X	
MW-15s	X		X	
MW-15i	X		X	
MW-16s	X		X	
MW-16i	X		X	
MW-17s	X		X	
MW-17d	X		X	
MW-18s	X		X	
MW-18i	X		X	
MW-18d	X		X	
PW-1	X		X	

NOTES: X - Specified sample analyzed for indicated parameter.

PP+40 - Priority Pollutants plus forty additional compounds includes: volatiles by EPA Method 624, Base Neutrals and Acid Extractable Organics by EPA Method 625, Organochloride Pesticides and PCBs by EPA Method 8080, Priority Pollutant Metals plus Cyanide and Phenol. Volatiles analysis also targeted additional compounds: Butyl Benzene; Cumene; Decane; Heptane; Mesitylene; 1,2,4-Trimethyl Benzene; 1,2,3-Trimethyl Benzene; 1-Ethyl, 3-Methyl Benzene; 1,2,3,4-Tetramethyl Benzene; 1,2,3,5-Tetramethyl Benzene; 1,2-Diethyl Benzene; Nonane; Styrene; p-Xylene; m-Xylene; o-Xylene and Methyl Ethyl Ketone.

Fingerprinting - Hydrocarbon fingerprinting by GC/FID using modified ASTM Method D3328.

TABLE 5

SUMMARY OF ANALYTICAL PARAMETERS - SURFACE WATER AND STREAM SEDIMENT

TABLE 5: SUMMARY OF ANALYTICAL PARAMETERS - SURFACE WATER, STREAM SEDIMENT L.E. CARPENTER, WHARTON, NEW JERSEY.

	ANALYTICAL PARAMETERS			
	VO+15	BN+15	PP Metals	PCBs
Surface Water Sample #				
SW-1	X	X	X	
SW-2	X	X	X	
SW-3	X	X	X	
SW-4	X	X	X	X
SW-5	X	X	X	
SW-6	X	X	X	
Stream Sediment Sample #				
SS-1	X	X	X	
SS-2	X	X	X	
SS-3	X	X	X	
SS-4	X	X	X	X
SS-5	X	X	X	
SS-6	X	X	X	

NOTES:
X - Specified sample analyzed for indicated parameter.
VO+15 - Volatile Organics by EPA Method 624 (surface water) and by EPA Method 8240 (stream sediment) plus fifteen non-targeted compounds.
BN+15 - Base Neutral Organics by EPA Method 625 (surface water) and by EPA Method 8270 (stream sediment) plus fifteen non-targeted compounds.
PP Metals - Priority pollutant metals by EPA 200 series or comparable ICP EPA Methods.
PCBs - Priority Pollutant Polychlorinated Biphenyls (PCBs) by EPA Method 608 (surface water) and by EPA Method 8080 (stream sediment).

TABLE 6

SUMMARY OF ANALYTICAL PARAMETERS - AIR

TABLE 6: SUMMARY OF ANALYTICAL PARAMETERS - AIR
L.E. CARPENTER, WHARTON, NEW JERSEY.

	ANALYTICAL PARAMETERS	
	VO+15	PP Metals
Air Sample *		
Feburary	X	X
March	X	X
April	X	X
May	X	X
June	X	X
July	X	X
August	X	X
September	X	X
October	X	X
November	X	X

NOTES:

X - Specified sample analyzed for indicated parameter.

PP Metals - Priority Pollutant Metals by EPA 200 series or comparable ICP EPA Methods.

VO+15 - Volatile Organics by EPA Method 624 plus fifteen non-targeted compounds.

* - Samples collected at four locations across site for each month.

TABLE 7

SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

(ug/kg)

SAMPLE ID:	TP-1A *	TP-1B *	FIELD ** BLANK	TRIP ** BLANK
DATE SAMPLED:	8/3/89	8/3/89	8/3/89	8/3/89
SAMPLE DEPTH (feet):	0 - 0.5	4.0 - 5.0	--	--
Chloromethane	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Methylene chloride	28 J	30 J	1.8 Jp	4.2 Jp
1,1-Dichloroethene	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes (total) @	ND	ND	ND	ND
TOTAL TARGETED VOC'S ***	28	30	ND	ND
Carbon disulfide	ND	ND	16	ND
TOTAL NON-TARGETED VOC'S ***	ND	ND	16	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
@ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
ND - Not detected.
* - Sample obtained by soil boring at MW-13s location.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.
(ug/kg)

SAMPLE ID:	TP-2A	TP-2B	TP-3A	TP-3B #	TP-4A	TP-4B	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	3/23/89	3/23/89	03/22/89	03/22/89	03/22/89	03/22/89	03/22/89	03/23/89	03/22/89	03/23/89
SAMPLE DEPTH (feet):	0 - 0.5	1.7	0 - 0.5	4.5 - 5.	0 - 0.5	4.5 - 5.	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	12 Jp	21 Jp	25 Jp	840 JB	21 Jp	890 JB	10 Jp	17 Jp	12 Jp	19 Jp
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	12	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	12	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	14000	ND	650	ND	ND	ND	ND
Xylenes (Total) @	ND	ND	ND	31000	ND	21000	ND	ND	ND	ND
TOTAL TARGETED VOC'S ***	ND	12	ND	45840 #	ND	22540	ND	ND	ND	ND
1,1,2-Trichloro-2,2,1-trifluoroethane	19	38	34	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	1000	ND	ND	ND	ND
Total Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	12	ND	ND
Total Other	ND	785	ND	ND	ND	ND	ND	ND	ND	ND
Total Unknown	ND	803	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC'S	19	1626	34	ND #	ND	1000	ND	12	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank. Sample concentration is at least 5 times above method blank's.
- NJDEP Tier I sample holding time was exceeded.
@ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
ND - Not detected.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.
(ug/kg)

SAMPLE ID:	TP-5A	TP-5B	TP-6A	TP-6B	TP-7A	TP-7B	TP-8A	TP-8B	FIELD ** BLANK	TRIP ** BLANK
DATE SAMPLED:	3/23/89	3/23/89	03/23/89	03/23/89	03/23/89	03/23/89	03/23/89	03/23/89	03/23/89	03/23/89
SAMPLE DEPTH (feet):	0 - 0.5	4 - 4.5	0 - 0.5	3.5 - 4	0 - 0.5	4 - 5	0 - 0.5	2.5 - 3	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	30 Jp	29000 JB	220	29 Jp	230	23000 J	18 J	4200 J	17 Jp	19 Jp
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	26	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	43000	ND	ND	ND	93000	ND	ND	ND	ND
Xylenes (Total) @	19	460000	ND	42	ND	34000	ND	ND	ND	ND
TOTAL TARGETED VOC ***	19	532000	220	42	230	150000	44	4200	ND	ND
1,1,2-Trichloro-2,2,1-trifluoroethane	18	ND	130	16	130	ND	13	ND	ND	ND
Total Cyclohexane Compound	ND	ND	ND	ND	ND	ND	ND	3400	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	12	ND
Total Other	ND	ND	ND	795	ND	39000	ND	30500	ND	ND
Total Unknown	ND	ND	990	1000	110	145000	ND	32400	ND	ND
TOTAL NON-TARGETED VOC	18	ND	1120	1811	240	184000	13	66300	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank. Sample concentration is at least 5 times above method blank's.
@ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
ND - Not detected.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.
(ug/kg)

SAMPLE ID:	TP-9A	TP-9B	TP-10	TP-11	TP-12	TP-13	TP-14	TP-15	FIELD ** BLANK	TRIP ** BLANK
DATE SAMPLED:	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89
SAMPLE DEPTH (feet):	0 - 0.5	2 - 2.5	7.5 - 8	7.5 - 8	8 - 9	5.5 - 6	2 - 2.5	5.5 - 6	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	82	18 J	1100 J	43	4800 JB	36000 JB	24 JB	15 J	9.3 Jp	8.0 Jp
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	930	ND	ND	330000	2.8 J	ND	ND	ND
Xylenes (total) @	ND	ND	12000	ND	120000	2200000	ND	ND	ND	ND
TOTAL TARGETED VOC ***	97	18	14030	43	124800	2566000	26.8	15	ND	ND
1,1,2-Trichloro-2,2,1-trifluoroethane	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
Total Cyclohexane compound	ND	ND	8110	ND	ND	ND	ND	ND	ND	ND
Total Decane compounds	ND	ND	ND	ND	ND	ND	ND	200	ND	ND
Total Other compounds	ND	ND	7300	ND	ND	ND	ND	1620	ND	ND
Total Unknown compounds	ND	ND	55	ND	13000	ND	ND	4250	ND	ND
TOTAL NON-TARGETED VOC	ND	ND	15465	12	13000	ND	ND	6070	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration is over 5 times the method blank's.
@ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
ND - Not detected.
** - Analyzed by EPA Method 624 and reported in ug/L.

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.
(ug/kg)

SAMPLE ID:	TP-16	TP-17	TP-18	TP-19	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	3/29/89	3/29/89	3/28/89	3/28/89	3/28/89	3/29/89	3/28/89	3/29/89
SAMPLE DEPTH (feet):	4.0	4.0	5.5 - 6	3.5 - 4	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	65000 JB	1400 JB	18000	16000	2.6 Jp	5.6 Jp	7.7 Jp	7.1 Jp
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	220000	ND	28000	5800	ND	ND	ND	ND
Xylenes (total) @	710000	7000	39000	15000	ND	ND	ND	ND
TOTAL TARGETED VOC ***	995000	8400	85000	36800	ND	ND	ND	ND
1,1,2-Trichloro-2,2,1-trifluoroethane	93000	990	17000	16000	ND	ND	ND	ND
Total Cyclohexane compound	64000	ND	256000	44000	ND	ND	ND	ND
Total Pentane compounds	ND	860	94000	79000	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	8.4	ND	ND
Total Other compounds	42000	ND	425000	107400	ND	ND	ND	ND
Total Unknown compounds	83000	ND	24900	4600	ND	ND	ND	ND
TOTAL NON-TARGETED VOC	282000	1850	816900	251000	ND	8.4	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration is over 5 times over method blank's.
@ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
ND - Not detected.
** - Analyzed by EPA Method 624 and reported in ug/L.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.
(ug/kg)

SAMPLE ID:	TP-20	TP-21	TP-22	TP-23	FIELD ** BLANK	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	3/27/89	3/27/89	3/30/89	4/11/89	3/27/89	3/30/89	4/11/89	3/27/89	3/30/89	4/11/8
SAMPLE DEPTH (feet):	3.5 - 4	4.5 - 5	4.5	3.5 - 4	--	--	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	310000	120000 J	210	380	9.3 Jp	19 J	10 J	8.0 Jp	6.6 J	9.6 J
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	37000 J	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	360000	1700000	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total) @	2300000	7400000	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	2970000	9275000	210	380	ND	19	10	ND	6.6	9.6
1,1,2-Trichloro-2,2,1-trifluoroethane	ND	ND	110	ND	ND	14	ND	ND	ND	ND
Total Other compounds	ND	ND	ND	ND	ND	18	ND	ND	ND	ND
Total Unknown compounds	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC	ND	ND	110	ND	ND	32	ND	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration is over 5 times the method blank's.
@ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
ND - Not detected.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J) & (B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.
(ug/kg)

SAMPLE ID:	TP-24	TP-25 #	TP-26	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	3/29/89	3/30/89	3/30/89	3/29/89	3/30/89	3/29/89	3/30/89
SAMPLE DEPTH (feet):	4.5	2.5	4.0	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	150000 B	26 JB	93000 JB	5.6 Jp	19 J	7.1 Jp	6.6 J
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	4.8 J	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	230000	ND	180000	ND	ND	ND	ND
Xylenes (total) @	980000	15	1200000	ND	ND	ND	ND
TOTAL TARGETED VOC ***	1360000	45.8 #	1473000	ND	19	ND	6.6
1,1,2-Trichloro-2,2,1-trifluoroethane	ND	ND	69000	ND	14	ND	ND
Total Acetone	ND	450	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	8.4	ND	ND	ND
Total Other compounds	ND	201	ND	ND	18	ND	ND
Total Unknown compounds	133000	50	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC	133000	701 #	69000	8.4	32	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration is over 5 times the method blank's.
- NJDEP Tier I sample holding time was exceeded.
@ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
ND - Not detected.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J) & (B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID: (ug/kg)	TP-27	TP-28	TP-29	TP-33	FIELD ** BLANK #	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	3/29/89	3/28/89	3/28/89	3/29/89	3/28/89	3/29/89	3/29/89	3/28/89	3/29/89	3/29/89
SAMPLE DEPTH (feet):	4.5	5.0 -6.0	4.5 -5.0	7.5 -8.0	--	--	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5000 B	170000 q	35000 q	840 B	2.6 Jp	5.6 Jp	5.6 Jp	7.7 Jp	7.1 Jp	7.1 Jp
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	2900	290000	31000	1100	ND	ND	ND	ND	ND	ND
Xylenes (total) @	18000	880000	120000	9500	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	20900	1340000	186000	11440	ND *	ND	ND	ND	ND	ND
1,1,2-Trichloro-2,2,1-trifluoroethane	5700	430000	38000	ND	ND	ND	ND	ND	ND	ND
Pentane, 3-methyl	ND	ND	ND	340	ND	ND	ND	ND	ND	ND
Total Pentane	720	86000	27000	ND	ND	ND	ND	ND	ND	ND
Total Cyclopentane Compoun	ND	ND	ND	6330	ND	ND	ND	ND	ND	ND
Hexane, 2-methyl	ND	ND	ND	250	ND	ND	ND	ND	ND	ND
Heptane, 3-methyl	ND	ND	ND	500	ND	ND	ND	ND	ND	ND
Total Cyclohexane	3100	45000	54000	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	8.4	8.4	ND	ND	ND
Total Other	7700	63000	95500	6440	ND	ND	ND	ND	ND	ND
Total Unknown	1900	67000	17000	1700	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC	19120	691000	231500	15560	ND *	8.4	8.4	ND	ND	ND

NOTES: q - Compound also detected in the method blank at over 5 times the CRDL. The method blank is rejected as per NJDEP QAS.
J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration is over 5 times method blank's.
@ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
* - Xylenes, acetone, and styrene were found in the quantitation reports for the method blank associated with this field blank but were not reported in the non-target compound lists as they should have as per NJDEP QAS. The end user should not ignore the presense of these analytes because they were found in high concentration.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p) & (q); includes compounds detected at trace concentrations (J) & (B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID: (ug/kg)	TP-39 *	TP-42	TP-43	TP-44	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	3/30/89	4/4/89	4/4/89	4/4/89	3/30/89	4/4/89	3/30/89	4/4/89
SAMPLE DEPTH (feet):	2.5	6.5 -7.0	3.5 -4.0	6.0 -6.5	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	200	ND	ND	ND	19 J	13	6.6 J	15
Acetone	ND	420 J	ND	150 J	ND	3 Jp	ND	1 Jp
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	310 Jp	380 Jp	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	390 J	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	1800	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	ND	ND	2300	3300	ND	ND	ND	1 J
TOTAL TARGETED VOC ***	200	420	4490	3450	19	13	6.6	16
1,1,2-Trichloro-2,2,1-trifluoroethane	95	ND	ND	ND	14	ND	ND	ND
Total Octane	ND	15000 J	ND	1000 J	ND	ND	ND	ND
Cyclopentane	ND	11000 J	730 J	ND	ND	ND	ND	ND
Cyclohexane	ND	13000 J	4610 J	4200 J	ND	ND	ND	ND
Total Decane compounds	ND	19000 J	1000 J	ND	ND	ND	ND	ND
Benzene	ND	ND	4420 J	1860 J	ND	ND	ND	ND
Total Other compounds	ND	103000	ND	1710	18	ND	ND	ND
Total Unknown compounds	ND	ND	ND	940 J	ND	ND	ND	ND
TOTAL NON-TARGETED VOC ***	95	161000	10760	9710	32	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
* - TP-39 analytical results reported as TP-37 due to labelling error in the field.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.
(ug/kg)

SAMPLE ID:	TP-46	TP-47	TP-48 #	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	4/4/89	4/4/89	4/5/89	4/4/89	4/5/89	4/4/89	4/5/89
SAMPLE DEPTH (feet):	5.0 -6.0	6.0 -7.0	5.5 -6.0	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	13	4 Jp	15	7 p
Acetone	ND	1300 J	2300 B	3 Jp	ND	1 Jp	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
2-Butanone	200 Jp	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	2100	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	420 J	6800	3200 p	ND	ND	1 J	ND
TOTAL TARGETED VOC ***	420	10200	5500 #	13	ND	16	ND
Total Cyclopentane compound	ND	3400 J	1400 J	ND	ND	ND	ND
Total Cyclohexane compounds	8300 J	23100 J	12800 J	ND	ND	ND	ND
Total Benzene	2100 J	34300 J	ND	ND	ND	ND	ND
Total Unknown compounds	5000 J	4800 J	24700 J	ND	158.1 J	ND	116.5 J
Total Other compounds	ND	ND	780 J	ND	ND	ND	ND
TOTAL NON-TARGETED VOC ***	15400	65600	39680 #	ND	158.1	ND	116.5

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in method blank and sample is over 5 times method blank's.
- NJDEP Tier I sampling holding time exceeded. (Re-examined due to contamination of laboratory equipment.)
ND - Not detected.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J) & (B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.
(ug/kg)

SAMPLE ID:	TP-50A	TP-50B	TP-51A	TP-51B	TP-52	TP-53	TP-54	FIELD ** BLANK	TRIP ** BLANK
DATE SAMPLED:	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89
SAMPLE DEPTH (feet):	0 - 0.5	3.0 -3.5	0 - 0.5	3.5 -4.0	4.0 -4.5	2.5 -3.0	2.0 -2.5	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5 Jp	4 Jp	ND	4 Jp	ND	ND	7 J	3 J	3 J
Acetone	6 Jp	8 Jp	ND	8 Jp	ND	ND	6 J	14 p	9 Jp
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	1 J	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	2 J	5 J	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	3 J	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	3	ND	ND	2	5	ND	13	4	3
Total Unknown compounds	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J
TOTAL NON-TARGETED VOC ***	ND	ND	ND	ND	ND	ND	ND	ND	3.2

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
ND - Not detected.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID: (ug/kg)	TP-55	TP-56	TP-57	TP-58	FIELD ** BLANK	TRIP ** BLANK
DATE SAMPLED:	4/7/89	4/7/89	4/7/89	4/7/89	4/7/89	4/7/89
SAMPLE DEPTH (feet):	5.0 -5.5	5.0 -5.5	4.5 -5.0	5.0 -5.5	--	--
Chloromethane	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
Methylene chloride	10 Jp	ND	8	ND	8	5
Acetone	210 p	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
2-Butanone	ND	420 Jp	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND
Xylenes (total)	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	ND	ND	8	ND	8	5
1,1,2-Trichloro-2,2,1-trifluoroethane	ND	ND	ND	ND	ND	ND
Butanoic Acid	51 J	ND	ND	ND	ND	ND
2,4-Dimethyl-3-Pentanone	200 J	5800 J	ND	ND	ND	ND
Total Decane	185 J	ND	ND	ND	ND	ND
Total Benzene	51 J	ND	ND	ND	ND	ND
Total Other compounds	147 J	2400 J	24 J	ND	ND	ND
Total Unknown compounds	ND	ND	932 J	14.8 J	ND	ND
TOTAL NON-TARGETED VOC ***	635	8200	956	14.8	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p).
Includes compounds detected at trace concentrations (J).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID: (ug/kg)	TP-59	TP-60	TP-61	TP-62	TP-63 #	TP-64 #	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	4/7/89	4/7/89	4/7/89	4/7/89	4/5/89	4/5/89	4/5/89	4/7/89	4/5/89	4/7/89
SAMPLE DEPTH (feet):	4.5 -5.0	4.5 -5.0	4.5 -5.0	5.5 -6.0	7.5 -8.0	8.5 -9.0	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	8	5 Jt	4 Jt	4 Jp	8	7 p	5
Acetone	25 JB	180 Jp	2800 B	ND	22 p	26 p	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	380 Jp	250 Jp	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	6	3 J	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	350 J	ND	ND	2 J	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	ND	350 J	ND	ND	4 Jp	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	25	700	2800	8	8 #	3 #	ND	8	ND	5
2,4-Dimethyl-3-Pentanone	33 J	3800 J	2900 J	ND	ND	ND	ND	ND	ND	ND
2,3,4-Trimethyl-Hexane	34 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Decanal	32 Jp	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Benzene	ND	ND	ND	14.6 J	ND	ND	ND	ND	ND	ND
Total Other compounds	41 J	4300 J	ND	21.5 J	ND	ND	ND	ND	ND	ND
Total Unknown	ND	ND	ND	27 J	ND	ND	158.1 J	ND	116.5 J	ND
TOTAL NON-TARGETED VOC ***	108	8100	2900	63.10	ND #	ND #	158.1	ND	116.5	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
t - Compound also detected in trip blank. Value negated as per NJDEP QAS directive.
p - Compound also detected in laboratory method blank.
B - Compound also detected in method blank and sample concentration is over 5 times the method blank's.
- Re-examined due to contamination of laboratory equipment. NJDEP Tier I sample holding time was exceeded.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in blanks (p) and (t); includes compounds detected at trace concentrations (J) and B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID: (ug/kg)	TP-65 #	TP-66 #	TP-67 #	TP-68	TP-69	TP-70	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	4/5/89	4/5/89	4/5/89	4/4/89	4/4/89	4/4/89	4/4/89	4/5/89	4/4/89	4/5/89
SAMPLE DEPTH (feet):	8.5 -9.0	7.5 -8.0	3.0 -3.5	7.5 -8.0	5.5 -6.0	7.5 -8.0	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3 J	5 J	15000 J	1 J	7	2 J	13	4 Jp	15	7 p
Acetone	26 p	20 p	86000	12 p	12 Jp	6 Jp	3 Jp	ND	1 Jp	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	1 J	95000	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	390000	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	ND	2 Jp	1200000	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	3 #	6 #	1786000#	1	8	2	13	ND	16	ND
Total Cyclooctane compounds	ND	ND	ND	19 J	ND	ND	ND	ND	ND	ND
Total Cyclopentane compound	ND	ND	ND	12 J	ND	ND	ND	ND	ND	ND
Total Decane compounds	ND	ND	ND	12 J	ND	ND	ND	ND	ND	ND
Total Naphthalene compounds	ND	ND	ND	27 J	ND	ND	ND	ND	ND	ND
Total Cyclohexane compounds	ND	ND	ND	20 J	ND	ND	ND	ND	ND	ND
Total Unknown compounds	ND	ND	ND	ND	ND	ND	ND	158 J	ND	117 J
Total Other compounds	ND	ND	ND	91 J	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC ***	ND #	ND #	ND #	181	ND	ND	ND	158	ND	117

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in method blank and sample concentration is over 5 times the method blank's.
- Re-examined due to contamination of laboratory equipment. NJDEP Tier I sample holding time was exceeded.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID: (ug/kg)	TP-71 #	TP-72	TP-73	TP-74	TP-75 #	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	4/5/89	4/10/89	4/10/89	4/10/89	4/5/89	4/5/89	4/10/89	4/5/89	4/10/89
SAMPLE DEPTH (feet):	5.0 -5.5	6.0 -6.5	7.5 -8.0	6.5 -7.0	7.5 -8.0	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5 J	3 Jp	1 Jp	ND	9	4 Jp	3 J	7 p	3 J
Acetone	26 p	79 p	8 Jp	20000 JB	24 p	ND	14 p	ND	9 Jp
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	2 J	21	ND	ND	1 J	ND	1 J	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	70000	1 J	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	4 Jp	10	1	290000	3 Jp	ND	ND	ND	ND
TOTAL TARGETED VOC ***	7 #	31	1	380000	11 #	ND	4	ND	3
Total Cyclohexane compound	ND	ND	ND	57000 J	ND	ND	ND	ND	ND
Total Octane compounds	ND	ND	ND	183000J	ND	ND	ND	ND	ND
Total Heptane compounds	ND	ND	ND	22000 J	ND	ND	ND	ND	ND
Total Decane compounds	ND	ND	ND	94000 J	ND	ND	ND	ND	ND
Total Butanoic Acid	ND	ND	ND	21000 J	ND	ND	ND	ND	ND
Total Other compounds	ND	ND	ND	52000 J	ND	ND	ND	ND	3.2 J
Total Unknown compounds	ND	ND	ND	74000 J	ND	158 J	ND	117 J	ND
TOTAL NON-TARGETED VOC ***	ND #	ND	ND	503000	ND #	158	ND	117	3.2

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in method blank and sample concentration is over 5 times the method blank's.
- Re-examined due to contamination of laboratory equipment. NJDEP Tier I sample holding time was exceeded.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J) & (B).

TABLE 7: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.
(ug/kg)

SAMPLE ID:	TP-76	TP-77	TP-78	TP-79	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	4/10/89	4/7/89	4/7/89	4/7/89	4/7/89	4/10/89	4/7/89	4/10/89
SAMPLE DEPTH (feet):	2.5 - 3.	6.0 -6.5	6.0 -6.5	6.5 -7.0	--	--	--	--
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	6 Jp	3 Jp	3 J	ND	8	3 J	5	3 J
Acetone	8 Jp	6 Jp	ND	ND	ND	14 p	ND	9 Jp
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	1 J	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total) @	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	ND	ND	3	ND	8	4	5	3
Total Other compounds	ND	ND	ND	ND	ND	ND	ND	3.2 J
TOTAL NON-TARGETED VOC	ND	ND	ND	ND	ND	ND	ND	3.2

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
ND - Not detected.
** - Analyzed by EPA Method 624 and reported in ug/l.
*** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J).

TABLE 8

SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-1A *	TP-1B *	FIELD BLANK **
DATE SAMPLED:	8/3/89	8/3/89	8/3/89
SAMPLE DEPTH (feet):	0 - 0.5	4.0 - 5.0	--
PARAMETER (ug/kg)			
bis(2-Chloroethyl)ether	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND
Hexachloroethane	ND	ND	ND
Nitrobenzene	ND	ND	ND
Isophorone	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND
Naphthalene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND
2-Chloronapthalene	ND	ND	ND
Dimethyl phthalate	ND	ND	ND
Acenaphthylene	ND	ND	ND
Acenaphthene	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
Diethyl phthalate	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND
Fluorene	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND
Hexachlorobenzene	ND	ND	ND
Phenanthrene	ND	ND	ND
Anthracene	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND
Fluoranthene	ND	47 J	ND
Pyrene	ND	50 J	ND
Butyl benzyl phthalate	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND
bis(2-Ethylhexyl)phthalate	400 p*	680 p*	ND
Chrysene	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND
Benzo(b)fluoranthene	ND	50 JL	ND
Benzo(k)fluoranthene	ND	50 JL	ND
Benzo(a)pyrene	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	ND	147	ND
NON-TARGETED BASE NEUTRALS			
Total Benzeneacetic acid	ND	230	ND
Total Benzene compounds	ND	200	ND
Total Steroid compounds	ND	250	ND
Total Alkane compounds	ND	540	ND
Total Alkene compounds	ND	2970	ND
Total Other compounds	ND	2140	ND
Total Unknown compounds	650	1910	ND
TOTAL NON-TARGETED BASE NEUTRALS	650	8240	ND

NOTES:
J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
p* - Compound also detected in laboratory method blank at a concentration of 3 to 5 times the CRDL. Based on NJDEP Tier I guidelines, this value is qualified and the associated method blank value is rejected.
L - These compounds are not separable using this method and are therefore quantified together.
ND - Not detected.
* - Sample obtained by soil boring at MW-13 location.
** - Analyzed by EPA Method 625 and reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p), includes compounds detected at trace concentrations (J), and includes one of the two compounds that have been quantified together (L).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-2A	TP-2B	TP-3A	TP-3B	TP-4A	TP-4B	FIELD** BLANK	FIELD** BLANK
DATE SAMPLED:	3/23/89	3/23/89	3/22/89	3/22/89	3/22/89	3/22/89	3/22/89	3/23/89
SAMPLE DEPTH (feet):	0 - 0.5	1.7	0 - 0.5	4.5 - 5	0 - 0.5	4.5 - 5	--	--
PARAMETER (ug/kg)								
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	2700 J	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	560 J	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	3000 JB	4900 JB	1900 JB	8800 JB	ND	ND
Fluoranthene	1200 J	ND	ND	ND	ND	ND	ND	ND
Pyrene	1200 J	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	13000	440000	34000	96000	57000	200000	ND	ND
Chrysene	660 J	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	16620 e	440000 e	37000	100900	58900	211500	ND	ND e
NON-TARGETED BASE NEUTRALS								
Total Alkane compounds	ND	ND	ND	ND	ND	28000	ND	ND
Total Sulfur	ND	ND	ND	4100	ND	ND	ND	ND
Total Other compounds	2800	7000	ND	ND	ND	ND	ND	19 p
Total Unknown compounds	ND	ND	7100	9300	ND	ND	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS ***	2800 e	7000 e	7100	13400	ND	28000	ND	ND e

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration is a least 5 times greater than laboratory method blank concentration.
e - NJDEP Tier I sample holding time was exceeded.
ND - Not detected.
** - Analyzed by EPA Method 625 results reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-5A	TP-5B	TP-6A	TP-6B	TP-7A	TP-7B q	TP-8A	TP-8B	FIELD ** BLANK
DATE SAMPLED:	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89
SAMPLE DEPTH (feet):	0 - 0.5	4.0 - 4.5	0 - 0.5	3.5 - 4.0	0 - 0.5	4.0 - 5.0	0 - 0.5	2.5 - 3.0	--
PARAMETER (ug/kg)									
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	77 J	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	29 J	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	95 J	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	20 J	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	51000	5000000	15000	10000000	2000	9100000	80000	3100000	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	51000 e	5000000 e	15020 e	10000000 e	2029 e	9100000e,q	80172 e	3100000 e	ND e
NON-TARGETED BASE NEUTRALS									
Total Benzene compounds	ND	840000	450	ND	ND	ND	ND	160000	ND
Total Other compounds	2300	320000	1450	290000	410	ND	5200	ND	19 p
Total Unknown compounds	2800	ND	4550	ND	1500	350000	ND	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS ***	5100 e	1160000 e	6450 e	290000 e	1910 e	350000 e,q	5200 e	160000 e	ND e

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
e - NJDEP Tier sample holding time was exceeded, see Variance Report for further discussion.
q - This sample had zer surrogate recovery because of sample dilution.
ND - Not detected.
** - Analyzed by EPA Method 625 reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-9A	TP-9B	TP-10	TP-11	TP-12	TP-13	TP-14	TP-15	FIELD ** BLANK
DATE SAMPLED:	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89	3/27/89
SAMPLE DEPTH (feet):	0 - 0.5	2.0 - 2.5	7.5 - 8.0	7.5 - 8.0	8.0 - 9.0	5.5 - 6.0	2.0 - 2.5	5.5 - 6.0	--
PARAMETER (ug/kg)									
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	2.3 J
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	460 J	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	220 J	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	5100	180 J	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	640 J	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	580 J	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	370 J	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	23000	40000	870000	180000	13000000	630000	4600	320000	13
Chrysene	ND	430 J	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	580 JL	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	580 JL	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	310 J	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	240 J	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	220 J	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	28560	43770	870000	180000	13000000	630000	4600	320000	15.3
NON-TARGETED BASE NEUTRALS									
Total Unknown Nitrogen compounds	ND	710	ND	ND	ND	ND	ND	ND	ND
Phenanthrenecarboxylic acid	36900	ND	ND	ND	ND	ND	ND	ND	ND
Total Unknown Aliphatic compound	2400	4600	ND	ND	ND	ND	390	ND	ND
Total Alkane compounds	3000	2100	ND	ND	ND	ND	ND	ND	ND
Total Alkene compounds	ND	1000	ND	ND	ND	ND	ND	ND	ND
Total Sitosterol compounds	1900	ND	ND	ND	ND	ND	ND	ND	ND
Total Benzene compounds	ND	ND	ND	ND	ND	140000	ND	ND	ND
Total Other compounds	8100	2300	ND	ND	ND	ND	490	ND	ND
Total Unknown compounds	12700	1810	ND	8000	ND	ND	ND	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS	65000	12520	ND	8000	ND	140000	880	ND	ND

NOTES:
J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
L - Compounds are not separable using this method and therefore have been quantified together.
ND - Not detected.
** - Analyzed by EPA Method 625 reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J) and includes one of the two compounds that have been quantified together (L).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-16	TP-17	TP-18	TP-19	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	3/29/89	3/29/89	3/28/89	3/28/89	3/28/89	3/29/89
SAMPLE DEPTH (feet):	4.0	4.0	5.5 - 6.0	3.5 - 4.0	--	--
PARAMETER (ug/kg)						
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	54 J	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	51 J	ND	ND	ND	ND
Pyrene	ND	71 J	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	1900000	21000	3700000	840000	ND	1 J
Chrysene	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	110000	5900 J	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	1900000	21176	3810000	845900	ND	1 e
NON-TARGETED BASE NEUTRALS						
Total Other compounds	ND	ND	ND	32000 B	280 B	ND
Total Unknown compounds	ND	ND	240000	ND	200	ND
Total Benzene	820000	20000	ND	ND	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS	820000	20000	240000	32000	480	ND e

NOTES:
J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration is at least 5 times greater than laboratory method blank concentration.
e - NJDEP Tier sample holding time was exceeded, see Variance Report for further discussion.
ND - Not detected.
** - Analyzed by EPA Method 625 reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-20	TP-21	TP-22	TP-23	TP-24	TP-25	TP-26	FIELD ** BLANK	FIELD ** BLANK	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	3/27/89	3/27/89	3/30/89	4/11/89	3/29/89	3/30/89	3/30/89	3/27/89	3/29/89	3/30/89	4/11/89
SAMPLE DEPTH (feet):	3.5 - 4.0	4.5 - 5.0	4.5	3.5 - 4	4.5	2.5	4.0	--	--	--	--
PARAMETER (ug/kg)											
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	2.3 J	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	82 Jp	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	45 J	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	40000 J	110000 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	2800000	15000000	11000	4200	2200000	1800000	2500000	13	1 J	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	51 J	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	2840000	15110000	11000	4296	2200000	1800000	2500000	15.3	1 e	ND	ND
NON-TARGETED BASE NEUTRALS											
Total Benzene compounds	450000	7400000	1100	ND	170000	ND	257000	ND	ND	ND	ND
Total aldehyde compounds	ND	ND	ND	850	ND	ND	ND	ND	ND	ND	ND
Total alkene compounds	ND	ND	ND	330	ND	ND	ND	ND	ND	ND	ND
Total Phosphoric acid	120000	ND	ND	ND	ND	ND	62000	ND	ND	ND	ND
Total Sulfur	ND	ND	1000	ND	ND	ND	ND	ND	ND	ND	ND
Total Decane compounds	ND	ND	ND	ND	ND	ND	100000	ND	ND	ND	ND
Total Alkane compounds	ND	ND	ND	550	ND	ND	ND	ND	ND	ND	ND
Total Other compounds	ND	ND	ND	ND	ND	ND	ND	ND	ND	11 p	ND
Total Unknown compounds	ND	ND	ND	3560	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS	570000	7400000	2100	5290	170000	ND	419000	ND	ND e	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
e - NJDEP Tier sample holding time was exceeded, see Variance Report for further discussion.
ND - Not detected.
** - Analyzed by EPA Method 625 reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-27	TP-28 q	TP-29	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	3/29/89	3/28/89	3/28/89	3/28/89	3/29/89
SAMPLE DEPTH (feet):	4.5	5.0 - 8.0	4.5 - 5.	--	--
PARAMETER (ug/kg)					
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	340000	6700000	1200000	ND	1.0 J
Chrysene	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	340000	6700000 q	1200000	ND	1.0 e
NON-TARGETED BASE NEUTRALS					
Total Benzene compounds	ND	61000	ND	ND	ND
Total Other compounds	ND	24000	ND	260 B	ND
Total Unknown compounds	ND	ND	ND	200	ND
TOTAL NON-TARGETED BASE NEUTRALS	ND	85000 q	ND	460	ND e

NOTES:
J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration
e - NJDEP Tier sample holding time was exceeded, see Variance Report for further discussion.
q - This sample had zero surrogate recovery because of dilution.
ND - Not detected.
** - Analyzed by EPA Method 624 reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-34	TP-35	TP-36	TP-37	TP-38	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	3/28/89	3/29/89	3/29/89	3/28/89	3/29/89	3/28/89	3/29/89
SAMPLE DEPTH (feet):	7.0 - 8	4.5	4.5	4.5 - 5	6.0	--	--
PARAMETER (ug/kg)							
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	180 J	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	290 J	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	1500 J	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	480 J	4600 J	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	270 J	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	2700000	9000	96000	1300000	39000	ND	1.0 J
Chrysene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	2700000	9000	97220	1306100	39000	ND	1.0 e
NON-TARGETED BASE NEUTRALS							
Total Benzene compounds	81000	ND	ND	ND	2200	ND	ND
Total Phthalate compounds	ND	ND	ND	ND	ND	ND	ND
Total Other compounds	ND	ND	241600	377000	ND	260 B	ND
Total Naphthalene compounds	ND	ND	6100	11000	ND	ND	ND
Total Unknown compounds	ND	ND	76300	ND	4000	200	ND
Total Sulfur	ND	ND	ND	ND	6800	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS	81000	ND	324000	388000	13000	460	ND e

NOTES:
- J - Detected below reporting limit or is an estimated concentration.
- p - Compound also detected in laboratory method blank.
- B - Compound also detected in laboratory method blank and sample concentration is at least 5 times the laboratory method blank concentration.
- e - NJDEP Tier sample holding time was exceeded, see Variance Report for further discussion.
- ND - Not detected.
- ** - Analyzed by EPA Method 625 results reported in ug/l.
- *** - Excludes compounds also detected in laboratory method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-39	TP-40	TP-41	TP-42	TP-43	TP-44	FIELD ** BLANK	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	3/30/89	3/29/89	3/29/89	4/4/89	4/4/89	4/4/89	3/29/89	3/30/89	4/4/89
SAMPLE DEPTH (feet):	2.5	7.5	4.0	6.5 - 7.0	3.5 - 4.0	6.0 - 6.5	--	--	--
PARAMETER (ug/kg)									
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	170 J	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	2.2 Jp
Acenaphthene	ND	210 J	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	160 J	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	1200 J	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	340 J	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	4400	ND	ND	ND	5500 J	ND	ND	ND
Pyrene	ND	3900	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	28000 J	24000 J	51000	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	2300	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	32000	22000	290000	17000000	15000000	30000000	1 J	ND	ND
Chrysene	ND	2600	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	16000 J	100000	ND	ND	ND
Benzo(b)fluoranthene	ND	620 J	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	2300	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	370 J	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	950 J	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	1600 J	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	32000	43120	290000	17028000	15040000	30156500	1 e	ND	ND
NON-TARGETED BASE NEUTRALS									
Total Phosphoric acid	ND	ND	ND	140000	180000	710000	ND	ND	ND
Total Propanoic acid	ND	ND	ND	540000	410000	1600000	ND	ND	ND
Total Phenol compounds	ND	ND	ND	156000	53000	100000	ND	ND	ND
Total Phthalate	1900	ND	ND	4481000	596000	4453000	ND	ND	ND
Total Ketone	ND	ND	ND	ND	ND	93000	ND	ND	ND
Total Sulfur	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Benzene compounds	17900	840	ND	ND	ND	ND	ND	ND	ND
Total Other compounds	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Unknown compounds	ND	12600	ND	ND	ND	ND	ND	11 p	ND
TOTAL NON-TARGETED BASE NEUTRALS ***	19800	13440	ND	5317000	1239000	6956000	ND e	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
e - NJDEP Tier sample holding time was exceeded, see Variance Report for further discussion.
ND - Not detected.
** - Analyzed by EPA Method 625 reported in ug/l.
*** - Includes compounds detected at trace concentrations (J).

FOOTNOTE: TP-39 analytical results were reported as TP-37 due to a labelling error in the field. TP-37 was sampled 3/28/89 and TP-39 was sampled 3/30/89.

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-46	TP-47	TP-48	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	4/4/89	4/4/89	4/5/89	4/4/89	4/5/89
SAMPLE DEPTH (feet):	5.0 - 6.	6.0 - 7.	5.5 - 6.	--	--
PARAMETER (ug/kg)					
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	2.2 Jp	ND
Acenaphthylene	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	14000 J	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	8800000	7300000	11000000	ND	ND
Chrysene	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	180000	590000	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND
Benzo(g,h,i)peryiene	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	8800000	7494000	11590000	ND	ND
NON-TARGETED BASE NEUTRALS					
Total Benzene compounds	ND	49000	ND	ND	ND
Total Propanoic acid	740000	ND	ND	ND	ND
Total Phenol compounds	ND	ND	ND	ND	ND
Total Phthalate compounds	4391000	1878000	ND	ND	ND
Total Ketone compounds	ND	ND	ND	ND	ND
Total Sulfur	39000	ND	ND	ND	ND
Total Unknown compounds	159000	ND	4790000	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS	5329000	1927000	4790000	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration is at least 5 times greater than laboratory method blank concentration.
ND - Not detected.
** - Analyzed by EPA Method 625 results reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-50A #	TP-50B	TP-51A	TP-51B	TP-52	TP-53	TP-54	FIELD ** BLANK
DATE SAMPLED:	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89
SAMPLE DEPTH (feet):	0 - 0.5	3.0 - 3.5	0 - 0.5	3.5 - 4.0	4.0 - 4.5	2.5 - 3.0	2.0 - 2.5	--
PARAMETER (ug/kg)								
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	100 J	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	170 J	36 J	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	49 J	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	180 J	41 J	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	1900	430	400 J	55 J	160 J	670 J	ND
Anthracene	ND	420 J	100 J	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	140 J	ND	ND	ND	ND	340 J	ND
Fluoranthene	ND	1900	420	630 J	130 J	270 J	700 J	ND
Pyrene	ND	2200	490	550 J	98 J	230 J	1700 J	ND
Butyl benzyl phthalate	ND	1100	300 J	ND	ND	80 J	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	1100	250 J	280 J	60 J	110 J	ND	ND
bis(2-Ethylhexyl)phthalate	580 B	1900 B	3900 B	19000 B	310 Jp	4200 B	12000 B	ND
Chrysene	ND	1100	260 J	330 J	55 J	130 J	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	1500 L	190 J	480 JL	92 JL	200 JL	ND	ND
Benzo(k)fluoranthene	ND	1500 L	110 J	480 JL	92 JL	200 JL	ND	ND
Benzo(a)pyrene	ND	900	180 J	240 J	50 J	110 J	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	350 J	68 J	ND	ND	72 J	ND	ND
Dibenzo(a,h)anthracene	ND	120 J	39 J	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	330 J	73 J	ND	ND	71 J	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	609 e	15410 e	6887 e	21910 e	538 e	5633 e	15410 e	ND e
NON-TARGETED BASE NEUTRALS								
Total Methylphenanthrene/anthracene isomer	ND	1080	ND	ND	ND	ND	ND	ND
Total Dimethyl Benzene isomer	ND	ND	370	ND	ND	180	ND	ND
Total Unknown compounds	740	22320	1390	950	1920 p	2700 p	2250 p	420
4-Hydroxyl -4-methyl-2-pentanone	ND	5200 pn	2300 pn	14000 pn	9100 pn	11000 pn	29000 pn	ND
Benzo(e)pyrene	ND	1300	ND	ND	ND	ND	ND	ND
Substituted propanoic acid	ND	420	ND	ND	ND	ND	ND	ND
Total alcohol	360	ND	ND	ND	ND	ND	ND	ND
Total alkane compounds	ND	1300	ND	ND	ND	ND	ND	ND
Total alkene compounds	190	780	180	ND	ND	ND	ND	ND
Total Other compounds	810	4710	630	1890	150	180 p	2190 p	8
TOTAL NON-TARGETED BASE NEUTRALS ***	2100 e	31890 e	2570 e	2840 e	890 e	650 e	890 e	428 e

NOTES:
- J - Detected below reporting limit or is an estimated concentration.
- L - These compounds are not separable using this method, and are therefore quantified together.
- p - Compound also detected in laboratory method blank.
- B - Compound also detected in laboratory method blank and sample concentration is at least 5 times the laboratory method blank concentration.
- n - Compound is possibly due to laboratory contamination (aldol condensation product).
- e - NJDEP Tier sample holding time was exceeded, see Variance Report for further discussion.
- ND - Not detected.
- # - Sample scanned for a total of 25 non-targeted base neutral compounds.
- ** - Analyzed by EPA Method 625 reported in ug/l.
- *** - Excludes compounds detected in laboratory method blank (p) and (n); includes compounds detected at trace concentrations (J) AND (B). Also includes one of the two compounds quantified together (L).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING RESULTS - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-55	TP-56	TP-57	TP-58	TP-59	FIELD ** BLANK
DATE SAMPLED:	4/7/89	4/7/89	4/7/89	4/7/89	4/7/89	4/7/89
SAMPLE DEPTH (feet):	5.0 - 5.5	5.0 - 5.5	4.5 - 5.0	5.0 - 5.5	4.5 - 5.0	--
PARAMETER (ug/kg)						
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Phenanthrene	1100 J	2400 J	3600 J	1600 J	540 J	ND
Anthracene	ND	ND	ND	ND	140 J	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND
Fluoranthene	1300 J	2600 J	3200 J	1700 J	840 J	ND
Pyrene	1200 J	ND	3100 J	1800 J	510 J	ND
Butyl benzyl phthalate	ND	73000	46000	35000	1100	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	1600 J	ND	350 J	ND
bis(2-Ethylhexyl)phthalate	910000 B	6200000 B	1700000 B	3500000 B	25000 B	ND
Chrysene	ND	ND	1600 J	ND	300 J	ND
Di-n-octyl phthalate	11000	24000	2200 J	20000	2900	ND
Benzo(b)fluoranthene	1000 JL	ND	1600 JL	ND	470 JL	ND
Benzo(k)fluoranthene	1000 JL	ND	1600 JL	1400 J	470 JL	ND
Benzo(a)pyrene	ND	ND	ND	ND	290 J	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	180 J	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	160 J	ND
TOTAL TARGETED BASE NEUTRALS ***	825600	6302000	1782900	3561300	32580	ND
TOTAL NON-TARGETED BASE NEUTRALS						
Total Phthalates	14800	57000	ND	80700	1170	ND
Total Propanoic acid	192800	1445000	3200000	384000	31300	ND
Total Phenols	15800	146000	ND	102600	3450	ND
Sulfur	18000	16000	ND	ND	1400	ND
Phosphoric Acid	23000	62000	22000	57000	4100	ND
Total Other compounds	29100	ND	ND	ND	36000	ND
Total Unknown compounds	4400	29000	16500	10000	5590	ND
TOTAL NON-TARGETED BASE NEUTRALS	297900	1755000	3238500	634300	81840	ND

NOTES:
J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank and sample concentration is at least 5 times the laboratory method blank concentration.
L - These compounds are not separable by this method and have therefore been quantified together.
ND - Not detected.
** - Analyzed by EPA Method 625 results reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J) and (B) Also includes one of the two compounds that have been quantified together.

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-60	TP-61	TP-62	TP-63 q	TP-64	TP-65	TP-66	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	4/7/89	4/7/89	4/7/89	4/5/89	4/5/89	4/5/89	4/5/89	4/5/89	4/7/89
SAMPLE DEPTH (feet):	4.5 - 5.0	4.5 - 5.0	5.5 - 6.0	7.5 - 8.0	8.5 - 9.0	8.5 - 9.0	7.5 - 8.0	--	--
PARAMETER (ug/kg)									
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	10000 J	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	7000 J	ND	ND	ND	44 J	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	58 J	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	140000	30000	120 J	85000	150 J	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	1300000 B	120000 B	11000 B	430000 B*	650 p	68 J,p*	ND	ND	ND
Chrysene	ND	ND	ND	ND	44 J	ND	ND	ND	ND
Di-n-octyl phthalate	25000 J	7800 J	230 J	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	1472000	157800	11350	525000 q	296	ND	ND	ND	ND
NON-TARGETED BASE NEUTRALS									
Total Benzene compounds	ND	ND	ND	13000	1810	ND	ND	ND	ND
Sulfur	27000	ND	1300	ND	ND	ND	ND	ND	ND
Total Decane compounds	24000	ND	ND	ND	ND	ND	ND	ND	ND
Total Phenol	118000	ND	340	ND	ND	ND	ND	ND	ND
Total Propanoic acid	8914000	3509000	3330	ND	ND	ND	ND	ND	ND
Total Phosphoric acid	150000	35000	810	ND	ND	ND	ND	ND	ND
Total Hexanoic acid	ND	23000	ND	ND	ND	ND	ND	ND	ND
Total Phthalate compounds	30000	ND	ND	ND	ND	ND	ND	ND	ND
Total Alkane compounds	ND	ND	ND	ND	ND	230	150	ND	ND
Total Aldehyde compounds	ND	ND	ND	ND	270	ND	190	ND	ND
Total Other compounds	68000	43000	ND	ND	ND	ND	ND	ND	ND
Total Unknown compounds	24000	179000	330	ND	1130	260	3500 B	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS	9355000	3789000	6110	13000 q	3210	490	3840	ND	ND

NOTES:
- J - Detected below reporting limit or is an estimated concentration.
- q - This sample had zero recovery because of dilution.
- p - Compound also detected in laboratory method blank.
- B - Compound also detected in laboratory method blank and sample concentration is at least 5 times the laboratory method blank concentration.
- B*/p* - Compound also detected in the laboratory method blank at a concentration of 3 to 5 times the CRDL Based on NJDEP Tier I guidelines, this value is qualified and the associated method blank value is rejected.
- ND - Not detected.
- ** - Analyzed by EPA Method 625 reported in ug/l.
- *** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J)

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-67	TP-68	TP-69	TP-70	TP-71	TP-72	FIELD ** BLANK	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	4/5/89	4/4/89	4/4/89	4/4/89	4/5/89	4/10/89	4/4/89	4/5/89	4/10/89
SAMPLE DEPTH (feet):	3.0 - 3.5	7.5 - 8.0	5.5 - 6.0	7.5 - 8.0	5.0 - 5.5	6.0 - 6.5	--	--	--
PARAMETER (ug/kg)									
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	2.2 Jp	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	68 J	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	67 J	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	65 J	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	52 J	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	280000008*	1700	510	450	1500000B*	26000	ND	ND	ND
Chrysene	ND	ND	100 J	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	140 JL	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	140 JL	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	77	53 J	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	61	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	62 J	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	28000000	1700	1202	503	1500000	26000 e	ND	ND	ND e
NON-TARGETED BASE NEUTRAL									
Total Alkane compounds	ND	440	790	800	ND	1700	ND	ND	ND
Total Sulfur	ND	1200	390	ND	ND	ND	ND	ND	ND
Total Steroid compounds	ND	410	ND	ND	ND	ND	ND	ND	ND
Total Alkene compounds	ND	ND	730	360	ND	4100	ND	ND	ND
Total Aldehyde compounds	ND	ND	340	ND	ND	ND	ND	ND	ND
Total Benzeneacetic acid	ND	ND	ND	450	ND	ND	ND	ND	ND
Total Benzene compounds	4500000	ND	ND	ND	ND	ND	ND	ND	ND
Total Other compounds	ND	ND	ND	ND	ND	36000 p	ND	ND	8.0
Total Unknown compounds	530000	3890	5000	7790	ND	ND	ND	ND	420
TOTAL NON-TARGETED BASE NEUTRALS	5030000	5940	7250	9400	ND	5800 e	ND	ND	428 e

NOTES:
- J - Detected below reporting limit or is an estimated concentration.
- p - Compound also detected in laboratory method blank.
- B - Compound also detected in laboratory method blank and sample concentration is at least 5 times the laboratory method blank concentration.
- B* - Compound also detected in laboratory method blank at aconcentration of 3 to 5 times the CRDL. Based on NJDEP Tier I guidelines, this value is qualified and the associated method blank value is rejected.
- L - These compounds are not separable using this method and have therefore been quantified together.
- e - NJDEP Tier sample holding time was exceeded.
- ND - Not detected.
- ** - Analyzed by EPA Method 625 results reported in ug/l.
- *** - Excludes compounds detected in method blank (p); includes compounds detected at trace concentrations (J) and (B) Also includes one of the two compounds that have been quantified together (L).

TABLE 8: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - TEST PIT RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	TP-73	TP-74	TP-75	TP-77	TP-78	TP-79	FIELD ** BLANK	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	4/10/89	4/10/89	4/5/89	4/7/89	4/7/89	4/7/89	4/5/89	4/7/89	4/10/89
SAMPLE DEPTH (feet):	7.5 - 8.0	6.5 - 7.0	7.5 - 8.0	6.0 - 6.5	8.0 - 6.5	6.5 - 7.0	--	--	--
PARAMETER (ug/kg)									
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	39 J	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	170 J	ND	42 J	ND	310 J	ND	ND	ND
Anthracene	ND	43 J	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	380 J	ND	94 J	ND	1500	ND	ND	ND
Pyrene	ND	370 J	ND	100 J	ND	1000	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	58 J	ND	370 J	ND	ND	ND
bis(2-Ethylhexyl)phthalate	1100 J	84 J	260 Jp	240 Jp	230 Jp	70 Jp	ND	ND	ND
Chrysene	ND	230 J	ND	98 J	ND	390	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	270 J	ND	120 JL	ND	380 L	ND	ND	ND
Benzo(k)fluoranthene	ND	120 J	ND	120 JL	ND	380 L	ND	ND	ND
Benzo(a)pyrene	ND	190 J	ND	47 J	ND	77 J	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	93 J	ND	46 J	ND	76 J	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	100 J	ND	45 J	ND	60 J	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	1100 e	2089	ND	648	ND	4163	ND	ND	ND e
NON-TARGETED BASE NEUTRAL									
Total Alkane	ND	23900	ND	460	ND	ND	ND	ND	ND
Total Sulfur	ND	5000	ND	ND	ND	620	ND	ND	ND
Total Steroid	ND	3000	ND	730	ND	ND	ND	ND	ND
Total Unknown	3710 p	41300	ND	4580	1190	230	ND	ND	420
Total Alkene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Aldehyde	ND	19100	ND	250	ND	ND	ND	ND	ND
4-Hydroxy-4-methyl-2-pentanone	37000 pn	ND	ND	ND	ND	ND	ND	ND	ND
Total Other compounds	ND	8000	ND	ND	ND	470	ND	ND	8.0
TOTAL NON-TARGETED BASE NEUTRALS	ND e	100300	ND	6020	1190	1320	ND	ND	428 e

NOTES:
J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
n - Compound possibly due to laboratory contamination (aldol condensation product).
L - These compounds are not separable using this method and have therefore been quantified together.
e - NJDEP Tier sample holding time was exceeded, see Variance Report for further discussion.
ND - Not detected.
** - Analyzed by EPA Method 625 results reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p) and (n); includes compounds detected at trace concentrations (J) and includes one of the two compounds that have been quantified together (L).

TABLE 9

SUMMARY OF PRIORITY POLLUTANT METALS TESTING - TEST PIT RESULTS

TABLE 9: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - TEST PIT RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	TP-1A *	TP-1B *	TP-2A	TP-2B	TP-3A	TP-3B	TP-4A	TP-4B	FIELD ** BLANK	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	8/3/89	8/3/89	3/23/89	3/23/89	3/22/89	3/22/89	3/22/89	3/22/89	3/22/89	3/23/89	8/3/89
SAMPLE DEPTH (feet):	0 - 0.5	4.0 - 5.0	0 - 0.5	1.7	0 - 0.5	4.5 - 5.0	0 - 0.5	4.5 - 5.0	--	--	--
PARAMETER (mg/kg)											
Antimony	ND	ND	10.5 J	ND	ND	ND	ND	6.0 J	ND	ND	ND
Arsenic	2.6	13	6	7.9	1.4 J	3.6	2.5	3.0	ND	ND	ND
Beryllium	0.5	0.6	0.78 J	0.75 J	0.46 J	0.88 J	0.47 J	0.76 J	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND
Chromium	8	23	36.8	22.2	27.9	18.6	12.0	26.4	ND	ND	0.01
Copper	18	24	36.1	31.2	19.0	28.1	24.0	27.5	5.4 J	8.5 J	ND
Lead	6	43	63.4	79.6	31.2	12.1	25.7	75.2	ND	1.3 J	ND
Mercury	ND	ND	0.3	0.3	ND	ND	ND	ND	ND	ND	ND
Nickel	6	47	89.8	12.6 J	72.2	26.5	11.1	16.3	ND	6.3 J	ND
Selenium	0.7	ND	0.47 J	0.79 J	ND	0.5 J	ND	0.65 J	ND	1.7 J	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	0.25 J	ND	ND	ND	ND	ND
Zinc	34	148	121	157	44.2	103	62.5	130	4.1 J	5.4 J	0.03

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
* - Sample obtained by soil boring at MW-13s location.
** - Reported in ug/l.

TABLE 9: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - TEST PIT RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	TP-5A	TP-5B	TP-6A	TP-6B	TP-7A	TP-7B	TP-8A	TP-8B	TP-9A	TP-9B	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/27/89	3/27/89	3/23/89	3/27/89
SAMPLE DEPTH (feet):	0 - 0.5	4.0 - 4.5	0 - 0.5	3.5 - 4.0	0 - 0.5	4.0 - 5.0	0 - 0.5	2.5 - 3.0	0 - 0.5	2.0 - 2.5	--	--
PARAMETER (ug/kg)												
Antimony	ND	423	ND	ND	ND	6.7 J	ND	ND	438	89.0	ND	ND
Arsenic	10.5	3.9	3.3	4.4	5.2	7.5	6.5	9.5	14.2	17.1	ND	ND
Beryllium	0.81 J	0.47 J	0.65 J	0.53 J	0.8 J	0.48	0.67 J	0.69 J	0.90 J	0.74 J	ND	ND
Cadmium	ND	27.5	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND
Chromium	17.4	128	17.1	14.9	19	15.7	18.1	17.2	491	29.1	ND	5.6 J
Copper	36	23.8	28.4	15.5	23.8	20.5	17.8	34.3	160	111	8.5 J	10.3 J
Lead	19.5	765	14.7	21.7	12.7	30.3	31.5	166	6530	338	1.3 J	ND
Mercury	ND	0.5	0.1	0.1	ND	0.3	ND	0.5	0.90	3.5	ND	ND
Nickel	18.8	11.8	16.1	12.6	16.9	24.7	14.9	13.6 J	40.0	34.0	6.3 J	ND
Selenium	ND	3.6 J	ND	0.36 J	ND	0.3 J	0.34 J	0.9 J	ND	1.9	1.7 J	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.28 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	81.5	191	63.6	62.7	57.9	81.7	72	194	2750	261	5.4 J	8.8 J

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Results reported in ug/l.

TABLE 9: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - TEST PIT RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	TP-48	TP-63	TP-64	TP-65	TP-66	TP-67	FIELD ** BLANK
DATE SAMPLED:	4/5/89	4/5/89	4/5/89	4/5/89	4/5/89	4/5/89	4/5/89
SAMPLE DEPTH (feet):	5.5 - 6.0	7.5 - 8.0	8.5 - 9.0	8.5 - 9.0	7.5 - 8.0	3.0 - 3.5	--
PARAMETER (ug/kg)							
Antimony	7.4 J	ND	ND	ND	ND	38.7	ND
Arsenic	4.2	3.3	3.6	3.3	0.91 J	3.4	ND
Beryllium	1.1 J	0.96 J	1.1 J	0.86 J	0.62 J	1.1 J	1.2 J
Cadmium	ND	98.9	ND	ND	ND	2	ND
Chromium	21.9	12.2	19.1	10.7	6.1	27.9	ND
Copper	15.2	21	18.5	21.2	10.3	44.3	6.8 J
Lead	36.4	21.6	8.7	8.6	2.6	124	ND
Mercury	ND	0.1	ND	ND	ND	1	ND
Nickel	11.9	10.4	12.2	11.4	4.6 J	14.9	ND
Selenium	ND	0.95 J	ND	ND	ND	0.81 J	ND
Silver	ND	1.1 J	1.1 J	1 J	1.2 J	1.8 J	4.3 J
Thallium	ND	ND	ND	ND	ND	ND	ND
Zinc	61.4	67.2	41.6	48.9	32.9	234	30

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Results reported in ug/l.

TABLE 9: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - TEST PIT RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	TP-50A	TP-50B	TP-51A	TP-51B	TP-52	TP-53	TP-54	FIELD ** BLANK
DATE SAMPLED:	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89
SAMPLE DEPTH (feet):	0 - 0.5	3.0 - 3.5	0 - 0.5	3.5 - 4.0	4.0 - 4.5	2.5 - 3.0	2.0 - 2.5	--
PARAMETER (ug/kg)								
Phenolics, total	ND	0.2	ND	ND	ND	ND	ND	ND
Cyanide	ND	ND	ND	1.2	ND	0.63	1.4	ND
METALS								
Antimony	7.9 J	23.4	55.6	15.1	ND	ND	9.1 J	ND
Arsenic	3.6	6.4	6.7	7.1	2.4	2.2 J	15.5	ND
Beryllium	0.7 J	0.78 J	0.93 J	0.73 J	0.54 J	0.45 J	0.91 J	ND
Cadmium	1.8	1.3	ND	1 J	1 J	ND	ND	ND
Chromium	16.5	21.8	19	17.4	20.9	10.2	12.6	ND
Copper	53.5	39.5	31.6	33.8	11.3	19.4	48.4	ND
Lead	166	124	85	77.8	17.5	39.9	146	ND
Mercury	1.5	1.9	1.8	2.6	1	4.1	6.8	ND
Nickel	9.5	10.1	10.1	12.3	6.3 J	8.4 J	10.8 J	ND
Selenium	ND	ND	ND	ND	ND	ND	0.43 J	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	234	170	148	127	34.6	72.3	215	7.6 J

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Results reported in ug/l.

TABLE 9: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - TEST PIT RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	TP-68	TP-69	TP-70	TP-71	TP-72	TP-73	TP-74	TP-75	FIELD ** BLANK	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	4/4/89	4/4/89	4/4/89	4/5/89	4/10/89	4/10/89	4/10/89	4/5/89	4/5/89	4/4/89	4/10/89
SAMPLE DEPTH (feet):	7.5 - 8.0	5.5 - 6.0	7.5 - 8.0	5.0 - 5.5	6.0 - 6.5	7.5 - 8.0	6.5 - 7.0	7.5 - 8.0	--	--	--
PARAMETER (ug/kg)											
Antimony	ND	51.9	ND	19.2	15.8 J	ND	42.3	ND	ND	ND	ND
Arsenic	3.3	26.8	1.8 J	5.6	4.4	3.6	3.9	1.8 J	ND	ND	ND
Beryllium	1 J	1.3	1.5	1.4	0.65 J	0.42 J	0.83 J	0.8 J	1.2 J	1.2 J	ND
Cadmium	ND	ND	ND	1.3	3.1	ND	3.7	ND	ND	ND	ND
Chromium	15.4	18	17.9	24.8	23.1	9.5	30.6	11.6	ND	ND	ND
Copper	30.6	77.8	30.5	66.2	129	15.8	30.4	19.2	6.8 J	13.3 J	ND
Lead	36.8	204	97.2	229	203	9.5	154	7.2	ND	ND	ND
Mercury	0.5	38	0.1	0.5	1.4	ND	0.3	ND	ND	ND	ND
Nickel	11.7	25.9	13.2	9.3 J	45.3	10.2	10.2	14.1	ND	ND	ND
Selenium	ND	0.46 J	0.35 J	0.59 J	0.41 J	ND	ND	ND	ND	ND	ND
Silver	1.2 J	2.2 J	1.5 J	1.2 J	ND	ND	ND	1.1 J	4.3 J	4.5 J	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	74.1	175	89.1	149	502	35	316	44.4	30	28.8	7.6 J
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Reported in ug/l.

TABLE 10

SUMMARY OF PRIORITY POLLUTANT ORGANOCHLORINE PESTICIDES/ PCBS TESTING - TEST PIT RESULTS

TABLE 10: SUMMARY OF PRIORITY POLLUTANT ORGANOCHLORINE PESTICIDES/PCBs TESTING - TEST PIT RESULTS
EPA METHOD 8080
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	TP-1A *	TP-1B *	TP-2A	TP-2B	TP-3A	TP-3B	TP-4A	TP-4B	FIELD ** BLANK	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	8/3/89	8/3/89	3/23/89	3/23/89	03/22/89	03/22/89	03/22/89	03/22/89	03/22/89	3/23/89	8/3/89
SAMPLE DEPTH (feet):	0 - 0.5	4.0 - 5.0	0 - 0.5	1.7	0 - 0.5	4.5 - 5.0	0 - 0.5	4.5 - 5.0	--	--	--
PARAMETER (ug/kg)											
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	ND	ND	7500	12000	14000	ND	490 J	1600	ND	ND	ND
Aroclor-1260	ND	970	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
* - Samples obtained by soil boring at MW-13s location.
** - Analyzed by EPA Method 608 and reported in ug/l.

TABLE 10: SUMMARY OF PRIORITY POLLUTANT ORGANOCHLORINE PESTICIDES/PCBs TEST PIT RESULTS
EPA METHOD 8080
L.E. CARPENTER, WHARTON, NEW JERSEY.

Geo Engineering, Inc.
June 1989

SAMPLE ID:	TP-5A	TP-5B	TP-6A	TP-6B	TP-7A	TP-7B	TP-8A	TP-8B	FIELD ** BLANK
DATE SAMPLED:	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89	3/23/89
SAMPLE DEPTH (feet):	0 - 0.5	4.0 - 4.5	0 - 0.5	3.5 - 4.0	0 - 0.5	4.0 - 5.0	0 - 0.5	2.5 - 3.0	--
PARAMETER (ug/kg)									
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	ND	ND	300 J	ND	ND	ND	ND	ND	ND
Aroclor-1260	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Analyzed by EPA Method 608 and reported in ug/l.

TABLE 10: SUMMARY OF PRIORITY POLLUTANT ORGANOCHLORINE PESTICIDES/PCBs TESTING - TEST PIT RESULT
EPA METHOD 8080
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	TP-9A	TP-9B	FIELD ** BLANK
DATE SAMPLED:	3/27/89	3/27/89	3/27/89
SAMPLE DEPTH (feet):	0 - 0.5	2.0 - 2.5	--
PARAMETER (ug/kg)			
alpha-BHC	ND	ND	ND
beta-BHC	ND	ND	ND
delta-BHC	ND	ND	ND
gamma-BHC (Lindane)	ND	ND	ND
Heptachlor	ND	ND	ND
Aldrin	ND	ND	ND
Heptachlor epoxide	ND	ND	ND
Endosulfan I	ND	ND	ND
Dieldrin	ND	ND	ND
4,4'-DDE	ND	ND	ND
Endrin	ND	ND	ND
Endosulfan II	ND	ND	ND
4,4'-DDD	ND	ND	ND
Endosulfan sulfate	ND	ND	ND
4,4'-DDT	ND	ND	ND
Endrin aldehyde	ND	ND	ND
Methoxychlor	ND	ND	ND
Chlordane	ND	ND	ND
Toxaphene	ND	ND	ND
Aroclor-1016	ND	ND	ND
Aroclor-1221	ND	ND	ND
Aroclor-1232	ND	ND	ND
Aroclor-1242	ND	ND	ND
Aroclor-1248	ND	ND	ND
Aroclor-1254	1700	ND	ND
Aroclor-1260	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Analyzed by EPA Method 608 and reported in ug/l.

TABLE 10: SUMMARY OF PRIORITY POLLUTANT ORGANOCHLORINE PESTICIDES/PCBs TESTING - TEST PIT RESULTS
EPA METHOD 8080
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	TP-50A	TP-50B	TP-51A	TP-51B	TP-52	TP-53	TP-54	FIELD ** BLANK
DATE SAMPLED:	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89	4/10/89
SAMPLE DEPTH (feet):	0 - 0.5	3.0 - 3.5	0 - 0.5	3.5 - 4.0	4.0 - 4.5	2.5 - 3.0	2.0 - 2.5	--
PARAMETER (ug/kg)								
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	79	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	270	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	2900	320	530 J	ND	ND	150 J	240 J	ND
Aroclor-1260	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Analyzed by EPA Method 608 and reported in ug/l.

TABLE 10: SUMMARY OF PRIORITY POLLUTANT ORGANOCHLORINE PESTICIDES/PCBs TESTING - TEST PIT RESULTS
EPA METHOD 8080
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	TP-69	TP-70	TP-71	TP-72	TP-73	TP-74	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	4/4/89	4/4/89	4/5/89	4/10/89	4/10/89	4/10/89	4/4/89	4/10/89
SAMPLE DEPTH (feet):	5.5 - 6.0	7.5 - 8.0	5.0 - 5.5	6.0 - 6.5	7.5 - 8.0	6.5 - 7.0	--	--
PARAMETER (ug/kg)								
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Analyzed by EPA Method 608 and reported in ug/l.

TABLE 11

SUMMARY OF TOTAL PETROLEUM HYDROCARBON AND HYDROCARBON FINGERPRINT TESTING - TEST PIT RESULTS

TABLE 11: SUMMARY OF TOTAL PETROLEUM HYDROCARBON AND HYDROCARBON FINGER PRINT TESTING - TEST PIT RESULTS
BY ASTM METHOD D3328
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

Sample	Date Sampled	Sample Depth (feet)	TPH Results (ug/g)	Total Hydrocarbon (ug/g)	Qualitative Identification
TP-30	3/28/89	4.5 - 5.0	--	12000	'characteristics that are similar to resolved polar components in the n-C10 to n-C30 range.'
TP-31	3/28/89	7.0 - 8.0	--	5500	'characteristics that are similar to resolved polar components in the n-C10 to n-C30 range.'
TP-32	3/28/89	3.5 - 4.0	--	20000	'characteristics that are similar to resolved polar components in the n-C10 to n-C32 range.'
TP-33	3/28/89	7.5 - 8.0	--	760	'characteristics that are similar to resolved polar components in the n-C10 to n-C30 range.'
TP-34	3/28/89	7.0 - 8.0	--	8100	'characteristics that are similar to resolved polar components in the n-C10 to n-C36 range.'
TP-35	3/29/89	4.5	420	--	--
TP-36	3/29/89	4.5	230	--	--
TP-37	3/28/89	4.5 - 5.0	--	8100	'characteristics that are similar to a mixture of petroleum product in the fuel oil/lubricating oil range and a resolved polar component in the nC24 to nC34 range.'
TP-38	3/29/89	6	380	--	--
TP-39	3/30/89	2.5	ND	--	--
TP-40	3/29/89	7.5	ND	--	--
TP-41	3/29/89	4	360	--	--
Field Blank	3/28/89	--	--	0.04 *	--
Field Blank	3/29/89	--	ND *	--	--
Field Blank	3/30/89	--	ND *	--	--

NOTES: * - Reported in mg/l.
-- - Not Applicable.
- TP-39 analytical results reported as TP-37 due to labelling error in the field.
TP-37 sampled 3/28/89; TP-39 sampled 3/30/89.

TABLE 12

SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - HAND AUGER RESULTS

TABLE 12: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - HAND AUGER RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	HA-1 #	HA-2	HA-3	HA-4	HA-5	HA-6	HA-7	HA-8	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	3/27/89	3/23/89	3/23/89	3/22/89	3/22/89	3/22/89	3/22/89	3/22/89	3/22/89	3/23/89	3/22/89	3/23/89
SAMPLE DEPTH (feet):	.5 - 1.0	.5 - .75	.5 - .83	.5 - 1.0	.5 - .75	.5 - .75	.5 - .75	.5 - .83	-	-	-	-
PARAMETER (ug/kg)												
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	91 B	40 JB	53	67	110	100	58	110	9.7 Jp	5.8 Jp	8.0 Jp	7.1 Jp
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	56	8.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND q	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	7.9 J	ND q	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND q	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND q	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND q	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total) @	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	154.9 #	48.2	76	67	110	100	58	110	ND	ND	ND	ND
1,1,2-Trichloro-2,2,1-trifluoroethane	140	ND	14	100	88	110	120	78	ND	ND	ND	ND
Total Cyclohexane compound	ND	159	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Other compounds	ND	584	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Unknown compounds	28	110	ND	ND	60	67	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC***	168 #	853	14	100	148	177	120	78	ND	ND	ND	ND

NOTES:
- J - Trace concentrations noted below detection limit.
- q - Surrogate recovery outside standard QC limits.
- p - Compound detected in laboratory method blank.
- B - Compound detected in laboratory method blank, and sample concentration is over 5 times the method blank's.
- # - NJDEP Tier I sample holding time was exceeded.
- @ - Xylene was analyzed by the laboratory as a non-targeted compound . Xylene is listed and totaled here as a targeted compound since it is a compound of conncern at this site.
- ND - Not detected.
- ** - Analysis by EPA Method 624 and reported in ug/l.
- *** - Totals exclude compounds detected in method blank (p); and include compounds detected at trace concentrations (J) and (B).

TABLE 12: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - HAND AUGER RESULTS
BY EPA METHOD 8240 + 15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	HA-9	HA-10	HA-11	HA-12	HA-13	HA-14	HA-15	HA-16	FIELD** BLANK	FIELD** BLANK	FIELD** BLANK #	TRIP** BLANK	TRIP** BLANK	TRIP* BLANK
DATE SAMPLED:	3/28/89	3/23/89	3/28/89	3/23/89	3/27/89	3/28/89	3/27/89	3/28/89	3/23/89	3/27/89	3/28/89	3/23/89	3/27/89	3/28
SAMPLE DEPTH (feet):	.5 -1.0	.5 -.75	.5 -1.0	.5 - .8	.5 -1.0	.5 -1.0	.5 -1.2	.5 -1.0	-	-	-	-	-	-
PARAMETER (ug/kg)														
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	160 B	46	120 B	170 B	31 JB	150 B	46 B	78 B	5.8 Jp	4.0 Jp	3.2 Jp	7.1 Jp	2.4 Jp	9.4 J
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene(total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	8.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	3.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	1.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)@	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	160	46	120	175.3	39.4	150	46	78	ND	ND	ND #	ND	ND	ND
1,1,2-Trichloro-2,2,1-trifluoroethane	77	11	67	150	21	110	45	120	ND	ND	ND	ND	ND	ND
Total Other compounds	ND	ND	ND	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Unknown compounds	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC***	77	11	67	195	21	110	45	120	ND	ND	ND #	ND	ND	ND

NOTES:
- J - Trace concentrations noted below detection limit.
- p - Compound detected in laboratory method blank.
- B - Compound detected in laboratory method blank, and sample concentration is over 5 times above the method blank's.
- # - NJDEP Tier I sample holding time was exceeded.
- @ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
- ND - Not detected.
- ** - Analyzed by EPA Method 624 results reported in ug/l.
- *** - Totals exclude compounds detected in method blank (p); and include compounds detected at trace concentrations (J) and (B).

TABLE 12: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - HAND AUGER RESULTS
BY EPA METHOD 8240+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	HA-17	HA-18	HA-19	FIELD ** BLANK #	TRIP ** BLANK
DATE SAMPLED:	3/28/89	3/28/89	3/28/89	3/28/89	3/28/89
SAMPLE DEPTH (feet):	.5 - 1.0	.5 - 1.25	.5 - 1.0	-	-
PARAMETER (ug/kg)					
Chloromethane	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND
Methylene chloride	28 JB	25 Jp	69 B	3.2 Jp	9.4 Jp
1,1-Dichloroethene	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND
Xylenes (total) @	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	28	ND	69	ND #	ND
1,1,2-Trichloro-2,2,1-trifluoroethane	110	35 p	32	ND	ND
Total Other compounds	ND	ND	ND	ND	ND
Total Unknown compounds	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC ***	110	ND	32	ND #	ND

NOTES:
- J - Trace concentrations noted below detection limit.
- p - Compound detected in laboratory method blank.
- B - Compound detected in laboratory method blank, and sample concentration is at least 5 times greater than laboratory method blank concentration.
- # - NJDEP Tier I holding time was exceeded.
- @ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compoiund because it is a compound of concern at this site.
- ND - Not detected.
- ** - Analyzed by EPA Method 624 reported in ug/l.
- *** - Totals exclude compounds detected in laboratory blank (p); and includes compounds detected at trace concentrations (J) and (B).

TABLE 13

SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - HAND AUGER RESULTS

TABLE 13: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - HAND AUGER RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	HA-1	HA-2 q	HA-3	HA-4	HA-5	HA-6	HA-7	HA-8	FIELD ** BLANK	FIELD * BLANK	FIELD ** BLANK
DATE SAMPLED:	3/27/89	3/23/89	3/23/89	3/22/89	3/22/89	3/22/89	3/22/89	3/22/89	3/22/89	3/28/89	3/28/89
SAMPLE DEPTH (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	-	-	-
PARAMETER (ug/kg)											
bis(2-Chloroethyl)ether	ND *	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	210 J	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	210 J	ND	ND	360 J	450 J	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	1100 JB	ND	2500 JB	960 JB	3200 B	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	370 J	500	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	56 J	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	30000 JB	4500 JB	410 JB	ND	ND	ND	18000 J	ND	5.5 J	ND
Fluoranthene	ND	ND	ND	350 J	210 J	ND	300 J	ND	ND	ND	ND
Pyrene	ND	ND	ND	520 J	310 J	ND	300 J	ND	ND	ND	ND
Butyl benzyl phthalate	17000 J	ND	ND	ND	ND	ND	670 J	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	220 J	180 J	ND	ND	27000	ND	ND	ND
bis(2-Ethylhexyl)phthalate	15000000	13000000 B	160000	22000	2000	230000	39000	ND	2 J	ND	3.8 Jp
Chrysene	ND	ND	ND	420 J	290 J	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	20000 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	650 JL	360 JL	ND	340 JL	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	650 JL	360 JL	ND	340 JL	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	240 J	210 J	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	210 J	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	66 J	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	200 J	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	15037000	1330000 q	164500	26490	4722	232500	41930	32450	2	5.5	ND
NON-TARGETED BASE NEUTRALS											
Total Propanoic acid	ND	ND	ND	810	ND	ND	ND	ND	ND	ND	ND
Total Phenols	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.0
Total Phthalates	300000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Sulfur	160000	ND	ND	4500	40600	ND	1600	ND	ND	ND	ND
Total Benzene compounds	ND	ND	ND	5800	ND	ND	ND	9200	ND	ND	ND
Total Alkane compounds	91000	ND	ND	750	400	ND	ND	3300	ND	ND	ND
Total Anthracene compounds	ND	ND	ND	ND	1520	ND	ND	ND	ND	ND	ND
Total Naphthalene compounds	ND	ND	ND	ND	1650	ND	ND	ND	ND	ND	ND
Total Alcohol compounds	ND	ND	ND	700	ND	ND	ND	ND	ND	ND	ND
Total Phosphoric acid	220000	ND	ND	ND	ND	38300	ND	17500	ND	ND	ND
Total Cyclohexane compounds	160000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Unknown compounds	640000	ND	49600	ND	970	ND	ND	4000	ND	ND	ND
Total Other compounds	551000	ND	97000	1910	1630	30000	ND	ND	ND	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS	2122000	ND q	146600	14470	46770	68300	1600	34000	ND	ND	9.0

NOTES: q - No surrogates were detected because of dilution.
J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank, and sample concentration is at least 5 times greater than laboratory method blank concentration.
ND - Not detected.
** - Analyzed by EPA Method 625 and reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 13: SUMMARY OF BASE NEUTRAL ANALYTICAL TESTING - HAND AUGER RESULTS
BY EPA METHOD 8270+15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	HA-16	HA-17	HA-18	HA-19	FIELD ** BLANK
DATE SAMPLED:	3/28/89	3/28/89	3/28/89	3/28/89	3/28/89
SAMPLE DEPTH (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	-
PARAMETER (ug/kg)					
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	11000	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND
Diethyl phthalate	56 Jp	53 Jp	ND	1900 JB	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND
Butyl benzyl phthalate	37 J	360 J	ND	68000	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	5800	1700	1100	49000	ND
Chrysene	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	5837	2060	1100	129900	ND
NON-TARGETED BASE NEUTRALS					
Total Sulfur	ND	ND	ND	ND	ND
Total Phthalates	ND	ND	ND	5400	ND
Total Benzene compounds	ND	ND	ND	ND	ND
Total Alkane compounds	ND	990	460	11400	ND
Total Alkene compounds	210	2550	260	11000	ND
Total Anthracene compounds	ND	ND	ND	ND	ND
Total Naphthalene compounds	ND	ND	ND	ND	ND
Total Alcohol compounds	ND	ND	1500	33000	ND
Total Hexandecanoic acid	ND	660	ND	ND	ND
Total Phosphoric acid	ND	ND	ND	67000	ND
Total Propanoic acid	ND	ND	ND	11000	ND
Total Aldehyde compounds	ND	1610	950	18500	ND
Total Unknown compounds	320	2250	3350	139900	ND
Total Other compounds	ND	ND	ND	47000	ND
TOTAL NON-TARGETED BASE NEUTRALS	530	8060	6520	344200	ND

NOTES:

J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
B - Compound also detected in laboratory method blank, and sample concentration is at least 5 times greater than laboratory method blank concentration.
ND - Not detected.
** - Analyzed by EPA Method 625 and reported in ug/l.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentrations (J) and (B).

TABLE 14

SUMMARY OF PRIORITY POLLUTANT METALS TESTING - HAND AUGER RESULTS

TABLE 14: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - HAND AUGER RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	HA-2	HA-3	HA-4	HA-5	HA-6	HA-7	HA-8	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	3/23/89	3/23/89	3/22/89	3/22/89	3/22/89	3/22/89	3/22/89	3/22/89	3/23/89
SAMPLE DEPTH (feet):	0 - .5	0 - .5	0 - .5	0 - .5	0 - .5	0 - .5	0 - .5	-	-
PARAMETER (mg/kg)									
Antimony	413	23.3	125	123	212	67.9	103	ND	ND
Arsenic	5.8	5.1	10.3	9.5	5.5	3.1	5.3	ND	ND
Beryllium	0.56 J	0.48 J	.42 J	0.44 J	0.48 J	1.6	0.76 J	ND	ND
Cadmium	16.2	2.7	9.3	1.4	10.7	2.9	2.8	ND	ND
Chromium	78.6	20.8	493	13.0	35.8	14.2	18.6	ND	ND
Copper	87.9	90.4	69.7	72.3	58.6	28.7	237	ND	ND
Lead	693	215	2230	217	276	108	85.5	ND	ND
Mercury	1.6	1.5	0.4	0.5	0.4	0.4	0.1	ND	ND
Nickel	22.1	13.7	11.1	8.9 J	10.7	8.6 J	11.2	ND	5.8 J
Selenium	0.58 J	ND	1.8	0.27 J	.58 J	ND	ND	ND	1.8 J
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	.52 J	.57	.30 J	0.31 J	0.37 J	ND	ND
Zinc	389	367	313	165	198	98.6	96.1	7.2 J	3.1 J

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Reported in ug/l.

TABLE 14: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - HAND AUGER RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	HA-16	HA-17	HA-18	HA-19	FIELD ** BLANK
DATE SAMPLED:	3/28/89	3/28/89	3/28/89	3/28/89	3/28/89
SAMPLE DEPTH (feet):	0 - .5	0 - .5	0 - .5	0 - .5	-
PARAMETER (mg/kg)					
Antimony	26.9	ND	ND	828	ND
Arsenic	0.89 J	1.1 J	1.4 J	2.8	ND
Beryllium	0.39 J	0.56 J	0.69 J	0.34 J	ND
Cadmium	ND	ND	2.1	49.6	ND
Chromium	6.7	10.8	12.3	9.3	ND
Copper	8.5	10.3	11.8	18.8	9.7 J
Lead	3.9	10.0	4.1	14.4	ND
Mercury	ND	ND	ND	3.4	ND
Nickel	4.1 J	6.4 J	5.9 J	8.7 J	ND
Selenium	ND	0.38 J	0.23 J	0.65 J	ND
Silver	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND
Zinc	23.8	36.4	47.7	59.5	3.4 J

NOTES: J - Detected below reporting limit or is an estimated concentration.
ND - Not detected.
** - Reported in ug/l.

TABLE 15

TOTAL PETROLEUM HYDROCARBON AND HYDROCARBON FINGER PRINT TESTING - HAND AUGER AND GROUNDWATER RESULTS

TABLE 15: TOTAL PETROLEUM HYDROCARBON AND HYDROCARBON FINGER PRINT TESTING - HAND AUGER & GROUNDWATER RESULTS
BY EPA METHOD 418.1 & MODIFIED ASTM METHOD D3328
L.E. CARPENTER, WHARTON, NEW JERSEY.

HAND AUGER RESULTS

Sample	Date Sampled	Sample Depth (feet)	TPH Results (mg/kg)	Total Hydrocarbons (mg/L)	Qualitative Identification
HA-1	3/27/89	0 - .5	NA	1.20	"characteristics similar to an unidentified resolved component n-C25 to n-C26 range."
HA-1	5/9/89	0 - .5	654	NA	-
HA-23	3/27/89	0 - .5	1.20	NA	-
HA-24	3/27/89	0 - .5	0.91	NA	-
HA-25	3/27/89	0 - .5	2.50	NA	-
Field Blank	3/27/89	-	ND	NA	-
Field Blank	5/9/89	-	ND	NA	-

GROUNDWATER RESULTS

Sample	Date Sampled	Sample Depth (feet)	TPH Results (mg/L)	Total Hydrocarbons (mg/L)	Qualitative Identification
MW-11s	9/21/89	floating product	770,000	NA	"characteristics similar to a mixture of gasoline and a petroleum product in the lubricating range with polar components in the n-C25 to n-C26 range."
MW-11s	1/26/90	floating product	1,000,000	NA	"characteristics similar to a mixture of paint thinner and a petroleum product in the n-C21 to n-C28 range with a large polar component in the n-C21 to n-C23 range."
MW-12i	5/18/89	floating product	NA	1,100	"characteristics similar to a mixture of paint thinner, lubricating oil, and Fuel Oil No. 6. Based on the distribution of n-alkanes and isoprenoid hydrocarbons, the Fuel Oil No. 6 appears to be moderately weathered."
MW-12s	9/21/89	floating product	380	NA	"characteristics similar to a mixture of gasoline and a petroleum product in the fuel oil/lubricating oil range with 2-ring to 4-ring polynuclear aromatic hydrocarbons"
Field Blank	9/21/89	-	ND	NA	-

NOTES: - - Not applicable.
NA - Not analyzed
ND - Not detected

TABLE 16

SUMMARY OF PRIORITY POLLUTANT ORGANOCHLORINE PESTICIDES/ PCBS TESTING - HAND AUGER RESULTS

TABLE 16: SUMMARY OF PRIORITY POLLUTANT ORGANOCHLORINE PESTICIDES/PCBs TESTING - HAND AUGER RESULTS
EPA METHOD 8080
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	HA-20 q	HA-21	HA-22	FIELD ** BLANK
DATE SAMPLED:	3/27/89	3/27/89	3/27/89	3/27/89
SAMPLE DEPTH (feet):	0 - .5	0 - .5	0 - .5	-
PARAMETER (ug/kg)				
alpha-BHC	ND	ND	ND	ND
beta-BHC	ND	ND	ND	ND
delta-BHC	ND	ND	ND	ND
gamma-BHC (Lindane)	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
Aroclor-1016	ND	ND	ND	ND
Aroclor-1221	ND	ND	ND	ND
Aroclor-1232	ND	ND	ND	ND
Aroclor-1242	ND	ND	ND	ND
Aroclor-1248	ND	ND	ND	ND
Aroclor-1254	ND	ND	ND	ND
Aroclor-1260	ND	ND	ND	ND

NOTES:
ND - Not detected.
** - Reported in ug/l.
q - Surrogate recovery below NJDEP Tier I limit (because of dilution)

TABLE 17A

VOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS

TABLE 17-A: VOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 624
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-1	MW-2	MW-3 *	MW-4	MW-5	Field Blank	Trip Blank	Trip Blank
DATE SAMPLED:	9/21/89	9/21/89	9/22/89	9/21/89	9/21/89	9/21/89	9/21/89	9/22/89
PARAMETER (ug/l)								
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	320 J	ND	ND	ND	ND	ND	ND	25 p
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	50 J	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	67 J	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	6800	64 J	10000	1.7 J	ND	ND	ND	ND
Xylenes (Total)	32000	1600	67000	17	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	39187	1714	77000 e	18.7	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND e	ND	ND	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated value.
p - Compound also detected in laboratory method blank.
e - Sample holding time was exceeded.
ND - Not detected.
*** - Excludes compounds also detected in laboratory method blank (p); includes compounds detected at trace concentrations (J).
* - No field blank collected; sample collected with dedicated gas displacement sampler.

TABLE 17-A: VOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 624
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-8	MW-11d	MW-11i	MW-12i	MW-12s	Field Blank	Field Blank	Trip Blank	Trip Blank
DATE SAMPLED:	9/20/89	9/20/89	9/20/89	9/20/89	9/21/89	9/20/89	9/21/89	9/20/89	9/21/89
PARAMETER (ug/l)									
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	27	8.7 Jp	42 J	8.3 J	140 J	ND	ND	11 Jp	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	23 J	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	88	ND	640	4 J	ND	ND	ND
Xylenes (Total)	13	ND	700	ND	3100	18	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	40	ND	830 e	8.3	3903	22 e	ND	ND	ND
NON-TARGETED VOLATILE ORGANICS									
Carbon disulfide	2.8	ND	ND	23	ND	3.5	ND	ND	ND
Total C9H12 isomer	ND	ND	ND	ND	ND	12.8	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	2.8	ND	ND e	23	ND	16.3 e	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
e - Sample holding time was exceeded.
ND - Not detected.
*** - Excludes compounds also detected in laboratory method blank (p); includes compounds detected at trace concentrations (J).

TABLE 17-A: VOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 624
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-13i	MW-13s	MW-14d	MW-14i	MW-14s	Field Blank	Field Blank	Trip Blank	Trip Blank
DATE SAMPLED:	9/15/89	9/15/89	10/24/89	10/24/89	10/24/89	9/15/89	10/24/89	9/15/89	10/24/89
PARAMETER (ug/l)									
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	19Jp	21 Jp	ND	ND	ND	17Jp	7.6J	13Jp	ND
1,1-Dichloroethene	ND	3.6 J	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	21	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	11	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	2.6 J	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	5.2	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	3.5 J	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	1.1 J	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	ND	48 e	ND	ND	ND	ND e	7.6	ND e	ND
NON-TARGETED VOC									
1,1,2-Trichloro-1,1,2-trifluorethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC	ND	ND e	ND	ND	ND	ND e	ND	ND e	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
e - NJDEP Tier sample holding time was exceeded.
ND - Not detected.
*** - Excludes compounds also detected in laboratory method blank (p); includes compounds detected at trace concentrations (J).

TABLE 17-A: VOLATILE ORGANICS TESTING - GROUNDWATER RESULTS
BY EPA METHOD 624
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-15i	MW-15s	Field Blank	Trip Blank
DATE SAMPLED:	9/14/89	9/14/89	9/14/89	9/14/89
PARAMETER (ug/l)				
Chloromethane	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Methylene chloride	2.8 Jp	7.5 Jp	7.8 Jp	5.8 Jp
1,1-Dichloroethene	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
Toluene	1.6 J	1.9 J	2.2 J	1.6 J
Chlorobenzene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes (Total)	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND
Heptane	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	1.6	1.9	2.2	1.6
1,1,2-Trichloro-1,1,2-trifluorethane	25 p	12 p	13 p	24 p
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
ND - Not detected.
*** - Excludes compounds also detected in laboratory method blank (p); includes compounds detected at trace concentrations (J).

TABLE 17-A: VOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 624
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-16i	MW-16s	MW-17d	MW-17s	Field Blank	Field Blank	Trip Blank	Trip Blank
DATE SAMPLED:	9/20/89	9/20/89	9/14/89	9/14/89	9/14/89	9/20/89	9/14/89	9/20/89
PARAMETER (ug/l)								
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	11 Jp	17 J	2.5 Jp	8.1 Jp	7.8 Jp	ND	5.8 Jp	11 Jp
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	1.7 J	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	1.3 J	2.5 J	2.2 J	ND	1.6 J	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	4 J	ND	ND
Xylenes (Total)	ND	ND	ND	ND	ND	18	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	ND	17	3	2.5	2.2	22 e	1.6	ND
NON-TARGETED VOLATILE ORGANICS								
Carbon disulfide	3.1	ND	ND	ND	ND	3.5	ND	ND
Total C9H12 isomer	ND	ND	ND	ND	ND	12.8	ND	ND
1,1,2-Trifluorethane	ND	ND	18 p	20 p	13 p	ND	13 p	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	3.1	ND	ND	ND	ND	16.3 e	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
e - Sample holding time was exceeded.
ND - Not detected.
*** - Excludes compounds also detected in laboratory method blank (p); includes compounds detected at trace concentrations (J).

TABLE 17-A: VOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 624
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-18i	MW-18d	MW-18s	Pro-Well	Field Blank	Field Blank	Trip Blank	Trip Blank
DATE SAMPLED:	9/15/89	9/15/89	9/15/89	10/24/89	9/15/89	10/24/89	9/15/89	10/24/89
PARAMETER (ug/l)								
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	12 Jp	9 Jp	11 Jp	ND	17 Jp	7.6 J	13 Jp	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	ND	ND	ND	ND	ND	7.6	ND	ND
NON-TARGETED VOLATILE ORGANICS								
1,1,2-Trichloro-1,2,2-trifluoroethane	6.9	8.1	6.5	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	6.9	8.1	6.5	ND	ND	ND	ND	ND

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
ND - Not detected.
*** - Excludes compounds also detected in the laboratory method blank (p); includes compounds detected at trace concentrations (J).

TABLE 17B

VOLATILE ORGANICS TESTING - SECOND ROUND GROUNDWATER RESULTS

Table 17-B: VOLATILE ORGANICS TESTING- SECOND ROUND GROUNDWATER RESULTS
BY EPA METHOD 624

L.E.CARPENTER, WHARTON NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-1 1/25/90	MW-2 1/24/90	MW-3 1/24/90	MW-4 1/24/90	MW-5 1/24/90	MW-6 1/25/90	MW-7 1/25/90	MW-8 1/25/90	Field Blanks 1/24/90	Field Blanks 1/25/90	Trip Blanks 1/24/90	Trip Blanks 1/25/90
PARAMETER (ug/l)												
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	1.5 J	ND	ND	ND	1.5 J	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene(total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	6900	39 J	6900	ND	ND	16000	3300	34	ND	ND	ND	ND
Heptane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	35 JB	1800 J	7.6 B	ND	ND	380 J	3.3 J	6.6 B	3.9 J	9.9 B	6.9 B
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	36000	1300	31000	ND	ND	120000	15000	49	ND	ND	1.1 J	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.2	ND	34
TOTAL TARGETED VOLATILE ORGANICS	42900	1374	39700	7.6	1.5	136000	18680	86.3	8.1	12.1	11	40.9
Heptanol	ND	ND	ND	7.7	ND	ND	ND	ND	ND	ND	ND	ND
Unknowns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2Trichloro-1,1,2Trifluoroethane	ND	ND	ND	ND	ND	9300	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	7.7	ND	9300	ND	ND	ND	ND	ND	ND

NOTES: * - Parameters which were not detected in any samples during the second round of sampling are not listed.
ND - Not detected.
J - Detected below reporting limit or is an estimated value.
B - Also detected in laboratory method blank.

Table 17-B: VOLATILE ORGANICS TESTING- SECOND ROUND GROUNDWATER RESULTS
BY EPA METHOD 624

L.E.CARPENTER, WHARTON NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-9 1/24/90	MW-10 1/24/90	MW-11i 1/25/90	MW-11d 1/25/90	MW-12s 1/26/90	MW-12i 1/26/90	Field Blanks 1/24/90	Field Blanks 1/25/90	Field Blanks 1/26/90	Trip Blanks 1/24/90	Trip Blanks 1/25/90	Trip Blanks 1/26/90	MW-13s 1/23/90
PARAMETER (ug/l)													
Chlorobenzene	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	2.4 J	ND	ND	ND	ND	ND	1.5 J	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6 J
1,2-Dichloroethene(total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11
Ethylbenzene	ND	26000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	ND	ND	920 J	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	4.2 JB	8800 B	ND	ND	ND	8 B	6.6 B	3.9 J	3.5 J	9.9 B	6.9 B	4.9 J	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2 J
Toluene	ND	ND	ND	ND	110 J	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5 J
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4 J
Xylenes (total)	ND	120000	12	ND	26000	1.2 J	ND	ND	ND	1.1 J	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	8.2	7.3	ND	34	6.2	ND
TOTAL TARGETED VOLATILE ORGANICS	7.9	154800	12	ND	27030	9.2	8.1	12.1	10.8	11	40.9	11.1	50.7
Heptanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Unknowns	ND	ND	ND	ND	8000	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2Trichloro-1,1,2Trifluoroethane	ND	ND	ND	12	ND	ND	ND	ND	4	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	12	ND	ND	ND	ND	4	ND	ND	ND	ND

NOTES: * - Parameters which were not detected in any samples during the second round of sampling are not listed.
ND - Not detected.
J - Detected below reporting limit or is an estimated value.
B - Also detected in laboratory method blank.

Table 17-B: VOLATILE ORGANICS TESTING- SECOND ROUND GROUNDWATER RESULTS
BY EPA METHOD 624

L.E.CARPENTER
WHARTON, NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-13s 1/23/90	MW-13i 1/23/90	MW-14s 1/23/90	MW-14i 1/23/90	MW-14d 1/23/90	MW-15s 1/23/90	MW-15i 1/23/90	MW-16s 1/22/90	MW-16i 1/22/90	Field Blanks 1/22/90	Field Blanks 1/23/90	Trip Blanks 1/22/90	Trip Blanks 1/23/90
PARAMETER (ug/l)													
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	4.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene(total)	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	2 J	ND	ND	ND	2 J	3.8 J	5 J	2.2 J	5.4 B
Tetrachloroethene	4.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	3.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	4.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24	ND	ND
TOTAL TARGETED VOLATILE ORGANICS	50.7	ND	ND	ND	2	ND	ND	ND	2	3.8	29	2.2	5.4
Heptanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Unknowns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2Trichloro-1,1,2Trifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: * - Parameters which were not detected in any samples during the second round of sampling are not listed.
ND - Not detected.
J - Detected below reporting limit or is an estimated value.
B - Also detected in laboratory method blank.

Table 17-B: VOLATILE ORGANICS TESTING- SECOND ROUND GROUNDWATER RESULTS
BY EPA METHOD 624

L.E.CARPENTER
WHARTON, NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-17s 1/23/90	MW-17d 1/23/90	MW-18s 1/22/90	MW-18i 1/22/90	MW-18d 1/22/90	PRO-WELL 1/25/90	Field Blanks 1/22/90	Field Blanks 1/23/90	Field Blanks 1/25/90	Trip Blanks 1/22/90	Trip Blanks 1/23/90	Trip Blanks 1/25/90
PARAMETER (ug/l)												
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene(total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	3.8 J	5 J	3.9 J	2.2 J	5.4 B	6.9 B
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	24	8.2	ND	ND	34
TOTAL TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	3.8	29	12.1	2.2	5.4	40.9
Heptanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Unknowns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2Trichloro-1,1,2Trifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: * - Parameters which were not detected in any samples during the second round of sampling are not listed.
ND - Not detected.
J - Detected below reporting limit or is an estimated value.
B - Also detected in laboratory method blank.

TABLE 18A

BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
L.E. CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-1 # 9/21/89	MW-2 9/21/89	MW-3 * 9/22/89	MW-4 9/21/89	MW-5 9/21/89	Field Blank 9/21/89
PARAMETER (ug/L)						
TARGETED COMPOUNDS						
n-Butylbenzene	ND	ND	ND	ND	ND	ND
1-Ethyl-3-methylbenzene	ND	ND	400 J	ND	ND	ND
1,2,3,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND
1,2,3,4-Tetramethylbenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	67	ND	670	ND	ND	ND
1,2,3-Trimethylbenzene	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	130	ND	ND	ND	ND	ND
n-Decane	ND	ND	4200	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND
1,2-Diethylbenzene	ND	ND	ND	ND	ND	ND
Isopropyl benzene	17 J	ND	ND	ND	ND	ND
n-Nonane	ND	ND	1100	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	230	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
LE CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-1 # 9/21/89	MW-2 9/21/89	MW-3 * 9/22/89	MW-4 9/21/89	MW-5 9/21/89	Field Blank 9/21/89
PARAMETER (ug/L)						
TARGETED COMPOUNDS (con't)						
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND
Di-n-butyl-phthalate	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	480 J	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	55 J	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	870	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS **	499 #	ND	7720	ND	ND	ND
NON-TARGETED COMPOUNDS						
2,6-bis(1,1-Dimethylethyl)-4-methylphenol	ND	ND	ND	1.8	ND	6.0
1-Fluoro-methoxy-benzene isomer	ND	ND	ND	ND	ND	4.0
3-Methyl-cyclopentanone	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND
Phosphoric acid,2-ethylhexyl diphenyl ester	ND	ND	1300	ND	ND	ND
Substituted 2-propanol	ND	ND	ND	ND	ND	ND
Tris(methylphenyl)phosphate isomer	ND	ND	870	ND	ND	ND
Undecane	ND	ND	530	ND	ND	ND
Total methyl benzoic acid	440	ND	ND	ND	ND	ND
Total unknown phthalate	ND	ND	41730	2	ND	ND
Total unknown propanoic acid ester	ND	ND	1200	ND	ND	ND
Total unknown siloxane	ND	ND	ND	ND	ND	2.0
Total unknown compounds	40	ND	6570	47.8	ND	10.4
Total other compounds	40	ND	ND	4	ND	ND
TOTAL NON-TARGETED BASE NEUTRALS **	520 #	ND	52200	55.6	ND	22.4

NOTES: J - Trace concentrations detected below reporting limit.
ND - Not detected.
\# - NJDEP Tier I sample holding time was exceeded.
* - No field blank collected; sample collected with dedicated gas displacement sampler.
** - Includes compounds detected at trace concentrations (J).

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-8	MW-11d	MW-11i	MW-12i	MW-12s	Field Blank	Field Blank
DATE SAMPLED:	9/20/89	9/20/89	9/20/89	9/20/89	9/21/89	9/20/89	9/21/89
PARAMETER (ug/L)							
TARGETED COMPOUNDS							
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND
1-Ethyl-3-methylbenzene	ND	ND	ND	ND	18	ND	ND
1,2,3,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND
1,2,3,4-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	14	ND	ND
1,2,3-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	19	ND	ND
n-Decane	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND
1,2-Diethylbenzene	ND	ND	ND	ND	ND	ND	ND
Isopropyl benzene	ND	ND	ND	ND	ND	ND	ND
n-Nonane	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	76	ND	32	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	2.2 J	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-8	MW-11d	MW-11i	MW-12i	MW-12s	Field Blank	Field Blank
DATE SAMPLED:	9/20/89	9/20/89	9/20/89	9/20/89	9/21/89	9/20/89	9/21/89
PARAMETER (ug/L)							
TARGETED COMPOUNDS (con't)							
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	13	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl-phthalate	ND	ND	ND	ND	ND	2 J	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	1100	ND	ND	ND	320	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BNAs **	1100	ND	76	ND	418.2	2	ND
NON-TARGETED COMPOUNDS							
2,6-bis(1,1-Dimethylethyl)-4-methylphenol	ND	10	ND	2	ND	4	6.0
1-Fluoro-methoxy-benzene isomer	ND	4	ND	4	ND	4	4.0
3-Methyl-cyclopentanone	ND	ND	ND	ND	64	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND	ND
Phosphoric acid,2-ethylhexyl diphenyl est	ND	ND	ND	ND	ND	ND	ND
Substituted 2-propanol	ND	ND	640	ND	ND	ND	ND
Tris(methylphenyl)phosphate isomer	ND	ND	ND	ND	ND	ND	ND
Undecane	ND	ND	ND	ND	ND	ND	ND
Total methyl benzoic acid	ND	ND	ND	ND	ND	ND	ND
Total unknown phthalate	ND	1.8	ND	ND	ND	ND	ND
Total unknown propanoic acid ester	ND	ND	ND	ND	136	ND	ND
Total unknown siloxane	32.8	4	10	3.6	ND	4.4	2
Total unknown compounds	52.8	4.2	44	20.8	506	4.6	10.4
Total other compounds	ND	ND	12	ND	58	ND	ND
TOTAL NON-TARGETED BNAs	85.6	24	706	30.4	764	17	22.4

NOTES: J - Trace concentrations detected below reporting limit.
ND - Not detected.
** - Includes compounds detected at trace concentrations (J).

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-13i	MW-13s	MW-14d	MW-14i	MW-14s	MW-15i	MW-15s	Field Blank	Field Blank
DATE SAMPLED:	9/15/89	9/15/89	10/24/89	10/24/89	10/24/89	9/14/89	9/14/89	9/14/89	9/15/89
PARAMETER (ug/L)									
TARGETED COMPOUNDS									
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Ethyl-3-methylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Decane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nonane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
LE CARPENTER, WHARTON, NEW JERSEY,

SAMPLE ID:	MW-13i	MW-13s	MW-14d	MW-14i	MW-14s	MW-15i	MW-15s	Field Blank	Field Blank
DATE SAMPLED:	9/15/89	9/15/89	10/24/89	10/24/89	10/24/89	9/14/89	9/14/89	9/14/89	9/15/89
PARAMETER (ug/L)									
TARGETED COMPOUNDS (cont)									
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl-phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	120	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BNAs **	ND	ND	ND	ND	120	ND	ND	ND	ND
NON-TARGETED COMPOUNDS									
2,6-bis(1,1-Dimethylethyl)-4-methylphenol	ND	ND	6.0 p	ND	ND	ND	ND	ND	ND
1-Fluoro-methoxy-benzene isomer	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Methyl-cyclopentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phosphoric acid,2-ethylhexyl diphenyl ester	ND	ND	ND	ND	ND	ND	ND	ND	ND
Substituted 2-propanol	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tris(methylphenyl)phosphate isomer	ND	ND	ND	ND	ND	ND	ND	ND	ND
Undecane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Atrazine	ND	24	ND	ND	ND	ND	ND	ND	ND
Total methyl benzoic acid	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total unknown phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total unknown propanoic acid ester	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total unknown siloxane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total unknown compounds	ND	18	ND	ND	ND	ND	62	ND	ND
Total other compounds	10 p	6	ND	ND	ND	ND	ND	ND	
TOTAL NON-TARGETED BNAs **	ND	48	ND	ND	ND	ND	62	ND	

NOTES: p - Compound also detected in laboratory method blank.
ND - Not detected.
** - Excludes compounds also detected in laboratory method blank (p).

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-16i	MW-16s	MW-17d	MW-17s	Field Blank	Field Blank
DATE SAMPLED:	9/20/89	9/20/89	9/14/89	9/14/89	9/14/89	9/20/89
PARAMETER (ug/L)						
TARGETED COMPOUNDS						
n-Butylbenzene	ND	ND	ND	ND	ND	ND
1-Ethyl-3-methylbenzene	ND	ND	ND	ND	ND	ND
1,2,3,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND
1,2,3,4-Tetramethylbenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND
n-Decane	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND
1,2-Diethylbenzene	ND	ND	ND	ND	ND	ND
Isopropyl benzene	ND	ND	ND	ND	ND	ND
n-Nonane	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-16i	MW-16s	MW-17d	MW-17s	Field Blank	Field Blank
DATE SAMPLED:	9/20/89	9/20/89	9/14/89	9/14/89	9/14/89	9/20/89
PARAMETER (ug/L)						
TARGETED COMPOUNDS (cont.)						
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND
Di-n-butyl-phthalate	ND	ND	ND	ND	ND	2 J
Fluoranthene	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BNAs **	ND	ND	ND	ND	ND	2
NON-TARGETED COMPOUNDS						
2,6-bis(1,1-Dimethylethyl)-4-methylphenol	ND	ND	ND	ND	ND	4
1-Fluoro-methoxy-benzene isomer	ND	ND	ND	ND	ND	4
3-Methyl-cyclopentanone	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2	ND	ND	ND	ND
Phosphoric acid,2-ethylhexyl diphenyl ester	ND	ND	ND	ND	ND	ND
Substituted 2-propanol	ND	ND	ND	ND	ND	ND
Tris(methylphenyl)phosphate isomer	ND	ND	ND	ND	ND	ND
Undecane	ND	ND	ND	ND	ND	ND
Total methyl benzoic acid	ND	ND	ND	ND	ND	ND
Total unknown phthalate	ND	4	ND	ND	ND	ND
Total unknown propanoic acid ester	ND	ND	ND	ND	ND	ND
Total unknown siloxane	ND	10	ND	ND	ND	4.4
Total unknown compounds	56	62	ND	ND	ND	4.6
Total other compounds	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED BNAs	56	78	ND	ND	ND	17

NOTES: J - Trace concentrations detected below reporting limit.
ND - Not detected.
** - Includes compounds detected at trace concentrations (J).

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-18d	MW-18i	MW-18s	Production Well	Field Blank	Field Blank
DATE SAMPLED:	9/15/89	9/15/89	9/15/89	9/15/89	9/15/89	9/24/89
PARAMETER (ug/L)						
TARGETED COMPOUNDS						
n-Butylbenzene	ND	ND	ND	ND	ND	ND
1-Ethyl-3-methylbenzene	ND	ND	ND	ND	ND	ND
1,2,3,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND
1,2,3,4-Tetramethylbenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND
n-Decane	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND
1,2-Diethylbenzene	ND	ND	ND	ND	ND	ND
Isopropyl benzene	ND	ND	ND	ND	ND	ND
n-Nonane	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND

TABLE 18-A: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - FIRST ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
LE CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID:	MW-18d	MW-18i	MW-18s	Production Well	Field Blank	Field Blank
DATE SAMPLED:	9/15/89	9/15/89	9/15/89		9/15/89	9/24/89
PARAMETER (ug/L)						
TARGETED COMPOUNDS (cont.)						
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND
Di-n-butyl-phthalate	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BNAs	ND	ND	ND	ND	ND	ND
NON-TARGETED COMPOUNDS						
2,6-bis(1,1-Dimethylethyl)-4-methylphenol	ND	ND	ND	ND	ND	6.0 p
1-Fluoro-methoxy-benzene isomer	ND	ND	ND	ND	ND	ND
3-Methyl-cyclopentanone	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND
Phosphoric acid,2-ethylhexyl diphenyl ester	ND	ND	ND	ND	ND	ND
Substituted 2-propanol	ND	ND	ND	ND	ND	ND
Tris(methylphenyl)phosphate isomer	ND	ND	ND	ND	ND	ND
Undecane	ND	ND	ND	ND	ND	ND
Total methyl benzoic acid	ND	ND	ND	ND	ND	ND
Total unknown phthalate	ND	ND	ND	ND	ND	ND
Total unknown propanoic acid ester	ND	ND	ND	ND	ND	ND
Total unknown siloxane	ND	ND	ND	ND	ND	ND
Total unknown compounds	ND	7.5	ND	ND	ND	ND
Total other compounds	ND	ND	ND	ND	5.0 p	ND
TOTAL NON-TARGETED BNAs **	ND	7.5	ND	ND	ND	ND

NOTES: p - Compound also detected in laboratory method blank.
ND - Not detected.
** - Excludes compounds also detected in laboratory method blank (p).

TABLE 18B

BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - SECOND ROUND GROUNDWATER RESULTS

TABLE 18-B: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - SECOND ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
L.E. CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-1 1/25/90	MW-2 1/24/90	MW-3 1/24/90	MW-4 1/24/90	MW-5 1/24/90	MW-6 1/25/90	MW-7 1/25/90	MW-8 1/25/90	FIELD BLANK 1/24/90	FIELD BLANK 1/25/90	TRIP BLANK 1/24/90	TRIP BLANK 1/25/90
PARAMETER* (ug/L)												
bis(2-Ethylhexyl)phthalate	22	7.0 J	38000	3.6 J	17	62000 D	4100 D	540 D	3.3 J	3.3 J	ND	ND
Butyl benzyl phthalate	ND	ND	110	ND	ND	160	ND	ND	ND	ND	ND	ND
n-Butylbenzene	6.0 JD	ND	24	ND	ND	ND	6.8 J	ND	ND	ND	ND	ND
n-Decane	6.3 JD	ND	1000	ND	ND	3100 D	47	16 J	ND	ND	ND	ND
1,2-Diethylbenzene	15 JD	8.8 J	21	ND	ND	100 D	28	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	200	ND	ND	120	32	ND	ND	ND	ND	ND
1-Ethyl-3-methylbenzene	260 D	21	140	ND	ND	420 D	110	10 J	ND	ND	ND	ND
Isopropyl benzene	32 D	41	84	ND	ND	100 D	48	11 J	ND	ND	ND	ND
Naphthalene	ND	ND	2.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nonane	ND	ND	310	ND	ND	520 D	33	ND	ND	ND	ND	ND
1,2,3,4-Tetramethylbenzene	ND	ND	7.2 J	ND	ND	ND	4.4 J	ND	ND	ND	ND	ND
1,2,3,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	210 LD	38 L	210 L	ND	ND	320 LD	110 L	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	210 LD	38 L	210 L	ND	ND	320 LD	110 L	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	430 D	ND	280	ND	ND	490 D	110	6.3 J	ND	ND	ND	ND
2,4-Dimethylphenol	38 I	2.8 J	15	ND	ND	180	4.1 J	ND	ND	ND	ND	ND
Phenol	130 I	ND	ND	ND	ND	68	ND	ND	ND	ND	ND	ND
2-Nitrophenol	8.8 JI	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED B/N **	1368	157	40723	3.6	17	67898	4743	583	3.3	3.8	ND	ND
Benzoic Acid	ND	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
C8H10 isomer	ND	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C9H12 isomers	ND	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C10H20 isomer	ND	ND	ND	ND	ND	770	ND	ND	ND	ND	ND	ND
C10H22 isomer	ND	ND	ND	ND	ND	1200	ND	ND	ND	ND	ND	ND
C11H24 isomers	ND	ND	ND	ND	ND	1930	ND	ND	ND	ND	ND	ND
C2-Benzene Isomers	1100	ND	ND	ND	ND	8380	ND	ND	ND	ND	ND	ND
C3-Benzene Isomers	147	ND	ND	ND	ND	480	240	ND	ND	ND	ND	ND
Dimethylbenzene isomer	ND	ND	320	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylpropyl benzene isomer	ND	ND	ND	ND	ND	430	ND	ND	ND	ND	ND	ND
4-Methyl phenol	51	ND	4.9	ND	ND	330	2.3	ND	ND	ND	ND	ND
Ethylmethyl benzene isomers	158	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Unknown alkanes	ND	ND	ND	ND	ND	5390	ND	ND	ND	ND	ND	ND
Unknown phthalates	ND	ND	ND	ND	ND	390	ND	ND	ND	ND	ND	ND
Total unknown compounds	920	330	ND	ND	ND	2360	4300	ND	ND	ND	ND	ND
TOTAL NON-TARGETED B/N **	2376	800	325	ND	ND	21660	4542	ND	ND	ND	ND	ND

NOTES: J - Trace concentration detected below reporting limit.
D - Compound identified at a secondary dilution
L - Compound not separable using this method and therefore quantified together
I - Surrogate recovery for this sample was below control limits due to a sample matrix interference.
ND - Not detected
* - Parameters which were not detected in any of the second round ground water analyses are not listed here.
** - Includes compounds detected at trace concentrations (J).

TABLE 18-B: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - SECOND ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
L.E. CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-9 1/24/90	MW-10 1/24/90	MW-11d 1/25/90	MW-11i 1/25/90	MW-12i 1/25/90	MW-12s 1/25/90	FIELD BLANK 1/24/90	FIELD BLANK 1/25/90	FIELD BLANK 1/26/90	TRIP BLANK 1/24/90	TRIP BLANK 1/25/90	TRIP BLANK 1/26/90
PARAMETER* (ug/L)												
bis(2-Ethylhexyl)phthalate	48	34000 D	3600 D	ND	77	5300	3.3 J	3.3 J	ND	ND	ND	ND
Butyl benzyl phthalate	ND	350 D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Decane	ND	2400	ND	ND	ND	6.9 J	ND	ND	ND	ND	ND	ND
1,2-Diethylbenzene	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	12	ND	ND	ND	200	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	89	ND	ND	ND	61	ND	ND	ND	ND	ND	ND
1-Ethyl-3-methylbenzene	ND	180	ND	ND	ND	2.3 J	ND	ND	ND	ND	ND	ND
Isopropyl benzene	ND	80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	3.5 J	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nonane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4-Tetramethylbenzene	ND	10	ND	ND	ND	230	ND	ND	ND	ND	ND	ND
1,2,3,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	ND	240 L	ND	ND	ND	290	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	240 L	ND	5.2 J	ND	49 q	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	490	ND	ND	ND	12 q	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	120	ND	ND	ND	ND	ND	ND	21	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED B/N **	48	38337	3624	50.9	77	6154.7	3.3	3.8	21	ND	ND	ND
Benzoic Acid	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND
2,6-bis(1,1-dimethylethyl)-4-methyl phenol	7.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C8H10 isomer	ND	1900	ND	ND	ND	1100	ND	ND	ND	ND	ND	ND
C10H22 isomer	ND	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C3-Benzene Isomers	ND	ND	ND	ND	ND	220	ND	ND	ND	ND	ND	ND
Ethanol,2-chlorophosphate(3:1)	ND	ND	110	830	14	ND	ND	ND	ND	ND	ND	ND
Ethylmethyl benzene isomers	ND	790	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylbenzoic acid isomer	ND	ND	ND	ND	ND	720	ND	ND	ND	ND	ND	ND
2-Methyl naphthalene	ND	ND	ND	ND	ND	4.7	ND	ND	ND	ND	ND	ND
4-Methyl phenol	ND	81	ND	ND	ND	62.8	ND	ND	ND	ND	ND	ND
Substituted cyclohexane	ND	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfur	990	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Unknown alkanes	ND	3180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Unknown phthalates	ND	2080	ND	ND	ND	180	ND	ND	ND	ND	ND	ND
Total unknown compounds	ND	2262	ND	ND	ND	6310	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED B/N **	997	11031	110	830	14	8606	ND	ND	ND	ND	ND	ND

NOTES: J - Trace concentration detected below reporting limit.
D - Compound identified at a secondary dilution
L - Compound not separable using this method and therefore quantified together
q - Surrogate recovery for this sample was below control limits.
ND - Not detected

TABLE 18-B: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - SECOND ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
L.E. CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-13i 1/23/90	MW-13s 1/23/90	MW-14d 1/23/90	MW-14i 1/23/90	MW-14s 1/23/90	MW-15s 1/23/90	MW-16i 1/22/90	MW-16s 1/22/90	FIELD BLANK 1/22/90	FIELD BLANK 1/23/90	TRIP BLANK 1/22/90	TRIP BLANK 1/23/90
PARAMETER* (ug/L)												
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	790	ND	2.4 J	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Decane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	2.8 J	ND	ND	ND	ND	ND	ND	ND
1-Ethyl-3-methylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nonane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED B/N **	ND	ND	ND	ND	793	ND	ND	ND	ND	ND	ND	ND
Ethanol,2- -chlorophosphate(3:1)	ND	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND
Substituted phenol	ND	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED B/N **	ND	340	ND	ND	ND	13	ND	ND	ND	ND	ND	ND

NOTES: J - Trace concentration detected below reporting limit.
ND - Not detected
* - Parameters which were not detected in any of the second round ground water analyses are not listed here.
** - Includes compounds detected at trace concentrations (J).

TABLE 18-8: BASE/NEUTRAL/ACID SEMIVOLATILE ORGANICS TESTING - SECOND ROUND GROUNDWATER RESULTS
BY EPA METHOD 625
L.E. CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID: DATE SAMPLED:	MW-17d 1/23/90	MW-17s 1/23/90	MW-18d 1/22/90	MW-18i 1/22/90	MW-18s 1/22/90	Pro-well 1/25/90	FIELD BLANK 1/22/90	FIELD BLANK 1/23/90	FIELD BLANK 1/25/90	TRIP BLANK 1/22/90	TRIP BLANK 1/23/90	TRIP BLANK 1/25/90
PARAMETER* (ug/L)												
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Decane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Ethyl-3-methylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nonane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,5-Tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
										ND	ND	ND
TOTAL TARGETED B/N **	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethanol,2- -chlorophosphate(3:1)	ND	ND	ND	43	ND	ND	ND	ND	21 ND	ND	ND	ND
TOTAL NON-TARGETED B/N **	ND	ND	ND	43	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected
* - Parameters which were not detected in any of the second round ground water analyses are not listed here.
** - Includes compounds detected at trace concentrations (J).

TABLE 19A

PRIORITY POLLUTANTS METALS AND OTHER INORGANICS - FIRST ROUND GROUNDWATER RESULTS

TABLE 19-A: PRIORITY POLLUTANTS METALS AND INORGANICS - FIRST ROUND GROUNDWATER RESULTS
LE CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID: / DATE SAMPLED:	MW-1 9/21/89	MW-2 9/21/89	MW-3 * 9/22/89	MW-4 9/21/89	MW-5 9/21/89	FIELD BLANK 9/21/89
Antimony	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	0.021	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND
Zinc	0.91	0.08	0.02	0.02	0.16	ND
Cyanide, Total	ND	ND	ND	ND	ND	ND
Phenolics, Total	0.44	ND	0.04	ND	ND	ND

NOTES: * - No field blank collected; sample collected with dedicated gas displacement sampler.
ND - Not detected.
Units are mg/l.

TABLE 19-A: PRIORITY POLLUTANT METALS AND INORGANICS - FIRST ROUND GROUNDWATER RESULTS
LE CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID: / DATE SAMPLED:	MW-8 9/20/89	MW-11d 9/20/89	MW-11i 9/20/89	MW-12i 9/20/89	MW-12s 9/21/89	FIELD BLANK 9/20/89	FIELD BLANK 9/21/89
Antimony	ND	ND	ND	ND	0.54	ND	ND
Arsenic	0.005	ND	ND	ND	0.008	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	0.04	ND	0.09	ND	ND
Selenium	ND	ND	ND	ND	0.015	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND
Zinc	0.41	0.1	0.02	0.19	0.15	0.25	ND
Cyanide, Total	ND	ND	ND	ND	ND	ND	ND
Phenolics, Total	ND	ND	0.05	ND	0.03	ND	ND

NOTES:

Units are mg/l.

ND - Not detected.

TABLE 19-A: PRIORITY POLLUTANTS METALS AND INORGANICS - FIRST ROUND GROUNDWATER RESULTS
LE CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID:	MW-13i	MW-13s	MW-14d	MW-14i	MW-14s	MW-15i	MW-15s	Field Blank	Field Blank	Field Blank
DATE SAMPLED:	9/15/89	9/15/89	10/24/89	10/24/89	10/24/89	9/14/89	9/14/89	9/14/89	9/15/89	10/24/89
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	0.17	0.02	0.02	ND	ND	ND	ND	ND	ND
Lead	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	0.01	0.06	0.08	0.38	0.03	0.04	0.05	0.07	0.01	0.07
Cyanide, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenolics, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Units are mg/l.

ND - Not detected.

TABLE 19-A: PRIORITY POLLUTANT METALS AND INORGANICS - FIRST ROUND GROUNDWATER RESULTS
LE CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID:	MW-16i	MW-16s	MW-17d	MW-17s	FIELD BLANK	FIELD BLANK
DATE SAMPLED:	9/20/89	9/20/89	9/14/89	9/14/89	9/14/89	9/20/89
Antimony	ND	ND	ND	ND	ND	ND
Arsenic	ND	0.007	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	0.01	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND
Zinc	0.05	0.01	0.02	0.02	0.07	0.25
Cyanide, Total	ND	ND	ND	ND	ND	ND
Phenolics, Total	ND	ND	ND	ND	ND	ND

NOTES:

Units are mg/l.
ND - Not detected.

TABLE 19-A: PRIORITY POLLUTANT METALS AND INORGANICS - FIRST ROUND GROUNDWATER RESULTS
LE CARPENTER, WHARTON, NEW JERSEY

SAMPLE ID:	MW-18d	MW-18i	MW-18s	Production Well	Field Blank	Field Blank
DATE SAMPLED:	9/15/89	9/15/89	9/15/89	10/24/89	9/15/89	10/24/89
Antimony	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND
Copper	0.01	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND
Nickel	ND	0.79	0.04	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND
Zinc	0.35	0.44	0.12	0.22	0.01	0.07
Cyanide, Total	ND	ND	ND	ND	ND	ND
Phenolics, Total	ND	ND	ND	26.9	ND	ND

NOTES:

Units are mg/l.

ND - Not detected.

TABLE 19B

PRIORITY POLLUTANTS METALS AND OTHER INORGANICS - SECOND ROUND GROUNDWATER RESULTS

TABLE 19-B: PRIORITY POLLUTANT METALS AND INORGANICS - SECOND ROUND GROUNDWATER RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID: / DATE SAMPLED:	MW-1 1/25/90	MW-2 1/24/90	MW-3 1/24/90	MW-4 1/24/90	MW-5 1/25/90	MW-6 1/25/90	MW-7 1/25/90	FIELD BLANK 1/24/90	FIELD BLANK 1/25/90
Antimony	ND	ND	ND	32.3 J	ND	54.9 J	ND	ND	ND
Arsenic	ND	ND	7.2 J	3.1 J	ND	3.3 J	31.7	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	26.1	ND	ND
Lead	ND	ND	ND	ND	ND	ND	8.3 S	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	60.1	ND	289	ND	56.4	224	ND	ND
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenolics	ND	ND	310	ND	ND	620	15	ND	ND

NOTES: All units are ug/L
J - Below certified detection limit but above method detection limit.
S - Value determined by method of standard additions.

TABLE 19-B: PRIORITY POLLUTANT METALS AND INORGANICS - SECOND ROUND GROUNDWATER RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-8	MW-9	MW-9DUP	MW-10	MW-11d	MW-11i	MW-11iDUP	FIELD BLANK	FIELD BLANK
DATE SAMPLED:	1/25/90	1/24/90	1/24/90	1/24/90	1/25/90	1/25/90	1/25/90	1/24/90	1/25/9(
Antimony	ND	ND	32.3 J	35.5 J	ND	ND	ND	ND	ND
Arsenic	8.1	ND	ND	21.3	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	7.9 J	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	19.1 J	26 J	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	43.4	ND	ND	46.3	ND	12.9 J	13.6 J	ND	ND
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenolics	ND	ND	ND	350	ND	ND	15	ND	ND

NOTES: All units are ug/L
J - Below certified detection limit but above method detection limit.

TABLE 19-B: PRIORITY POLLUTANT METALS AND INORGANICS - SECOND ROUND GROUNDWATER RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-12i	MW-12s	MW-13i	MW-13s	MW-14d	MW-14i	MW-14s	FIELD BLANK	FIELD BLANK
DATE SAMPLED:	1/26/90	1/26/90	1/23/90	1/23/90	1/23/90	1/23/90	1/23/90	1/23/90	1/26/90
Antimony	ND	75.0	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	8.8 J	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	94.5	ND	ND	ND	ND	ND	ND
Copper	9 J	ND	7.4 J	66.7	ND	10.2 J	ND	ND	9 J
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	77.1	ND	ND	ND	ND	ND
Selenium	ND	ND	2.3 J	2.0 J	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	15.8 J	ND	36.4	ND	13.6 J	ND	ND	ND
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenolics	ND	70	ND	ND	ND	ND	ND	ND	ND

NOTES: All units are ug/L
J - Below certified detection limit but above method detection limit.

TABLE 19-B: PRIORITY POLLUTANT METALS AND INORGANICS - SECOND ROUND GROUNDWATER RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-15i	MW-15s	MW-16s	MW-16i	MW-17d	MW-17s	FIELD BLANK	FIELD BLANK
DATE SAMPLED:	1/23/90	1/23/90	1/22/90	1/22/90	1/23/90	1/23/90	1/22/90	1/23/90
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	6.7 J	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	15.4	ND	ND	ND
Copper	ND	ND	8.1 J	7.3 J	5.3 J	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	81.3	ND	ND	ND	ND
Selenium	ND	ND	ND	2.5 J	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	15.6 J	42.6	ND	ND	ND	ND
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND
Phenolics	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: All units are ug/L
J - Below certified detection limit but above method detection limit.

TABLE 19-B: PRIORITY POLLUTANT METALS AND INORGANICS - SECOND ROUND GROUNDWATER RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	MW-18d	MW-18i	MW-18s	PRO-WELL	FIELD BLANK	FIELD BLANK
DATE SAMPLED:	1/22/90	1/22/90	1/22/90	1/25/90	1/22/90	1/25/90
Antimony	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND
Copper	7.3 J	8.6 J	7.3 J	33.3	5.9 J	ND
Lead	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND
Nickel	ND	1250	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	2 J	ND
Silver	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND
Zinc	13.5 J	17.3 J	13.3 J	147	11.8 J	ND
Cyanide	ND	ND	ND	ND	ND	ND
Phenolics	ND	18	ND	ND	ND	ND

NOTES: All units are ug/L
J - Below certified detection limit but above method detection limit.

TABLE 20

ORGANOCHLORINE PESTICIDES/PCBS TESTING - GROUNDWATER RESULTS - FIRST AND SECOND ROUNDS

TABLE 20: ORGANOCHLORINE PESTICIDES/PCB's TESTING - GROUNDWATER RESULTS
FIRST AND SECOND ROUNDS
EPA METHOD 8080
LE CARPENTER, WHARTON N.J.

	FIRST ROUND SEPTEMBER/OCTOBER 1989	SECOND ROUND JANUARY 1990
Groundwater Sample #		
MW-1	ND	ND
MW-2	ND	ND
MW-3	ND	ND
MW-4	ND	ND
MW-5	ND	ND
MW-6	not sampled	ND
MW-7	not sampled	ND
MW-8	ND	ND
MW-9	not sampled	ND
MW-10	not sampled	ND
MW-11s	not sampled	not sampled
MW-11i	ND	ND
MW-11d	ND	ND
MW-12s	ND	ND
MW-12i	ND	ND
MW-13s	ND	ND
MW-13i	ND	ND
MW-14s	ND	ND
MW-14i	ND	ND
MW-14d	ND	ND
MW-15s	ND	ND
MW-15i	ND	ND
MW-16s	ND	ND
MW-16i	ND	ND
MW-17s	ND	not sampled
MW-17d	ND	ND
MW-18s	ND	ND
MW-18i	ND	ND
MW-18d	ND	ND
PW-1	ND	ND

NOTES: ND - No organochlorine pesticides/PCB's detected for the indicated sample.

TABLE 21

SUMMARY OF VOLATILE ORGANIC ANALYTICAL TESTING - SURFACE WATER RESULTS

TABLE 21: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - SURFACE WATER RESULTS
BY EPA METHOD 624 + 15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	SW-1 #	SW-2 #	SW-3 #	SW-4 #	SW-5 #	SW-6 #	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK
DATE SAMPLED:	3/14/89	3/14/89	3/14/89	3/14/89	8/2/89	3/14/89	3/14/89	8/2/89	3/14/89	8/2/89
PARAMETER (ug/l)										
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	1.0 J	ND	ND	ND	3.8 Jp	3.8 J	2.0 Jp	2.7 Jp	6.2 Jp	5.9 Jp
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	3.7 J	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	3.5 J	ND	ND	ND	ND	ND
Xylenes (total) @	ND	ND	ND	ND	44	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	1.0 #	ND #	ND #	ND #	51.2 #	5.0 #	ND	ND	ND	ND
NON-TARGETED VOC										
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4
Total Unknown compounds	ND	ND	ND	ND	ND	13	ND	ND	ND	ND
TOTAL NON-TARGETED VOC	ND #	ND #	ND #	ND #	ND #	13 #	ND	ND	ND	5.4

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Compound also detected in laboratory method blank.
- NJDEP Tier I sample holding time was exceeded.
@ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled as a targeted compound because it is a compound of concern at this site.
ND - Not detected.
*** - Total excludes compounds detected in laboratory method blank, (p), includes compounds detected at trace concentrations (J).

TABLE 22

SUMMARY OF VOLATILE ORGANIC ANALYTICAL TESTING - STREAM SEDIMENT RESULTS

TABLE 22: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - STREAM SEDIMENT RESULTS
BY EPA METHOD 8240 + 15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	FIELD ** BLANK	FIELD ** BLANK	TRIP ** BLANK	TRIP ** BLANK
DATE SAMPLED:	03/14/89	03/14/89	03/14/89	03/14/89	08/2/89	03/14/89	03/14/89	08/2/89	03/14/89	08/2/89
SAMPLE DEPTH (feet):	.5 - 1.0	.5 - 1.0	.5 - 1.0	.5 - 1.0	0 - 1.0	.5 - 1.0	-	-	-	-
PARAMETER (ug/kg)										
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	59 J	39 JB	43 JB	29 J	24 JB	5.9 Jp	2.7 Jp	6.2 Jp	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	3.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	25	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	17	ND	ND	ND	ND	ND
Total Xylenes (total) @	ND	ND	ND	ND	220	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	3.3	59	39	43	266	49	ND	ND	ND	ND
1,1,2-Trichloro-2,2,1-trifluoroethane	ND	ND	30	ND	ND	20	ND	ND	ND	ND
Total Acetone	ND	ND	ND	ND	ND	ND	5.4	ND	ND	ND
Total Unknown compounds	680	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOC	680	ND	30	ND	ND	20	5.4	ND	ND	ND

NOTES:
- J - Detected below reporting limit or is an estimated concentration.
- p - Compound also detected in laboratory method blank.
- B - Compound also detected in laboratory method blank and sample concentration is at least 5 times the laboratory method blank concentration.
- @ - Xylene was analyzed by the laboratory as a non-targeted compound. Xylene is listed and totaled here as a targeted compound because it is a compound of concern at this site.
- ND - Not detected.
- ** - Analyzed by EPA Method 624 reported in ug/l.
- *** - Excludes compounds detected in laboratory method blank (p), includes compounds detected at trace concentrations (J) and (B).

TABLE 23

SUMMARY OF BASE/NEUTRAL ANALYTICAL TESTING - SURFACE WATER RESULTS

TABLE 23: SUMMARY OF BASE/NEUTRAL ANALYTICAL TESTING - SURFACE WATER RESULTS
BY EPA METHOD 625 + 15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	FIELD BLANK	FIELD BLANK
DATE SAMPLED:	03/14/89	03/14/89	03/14/89	03/14/89	08/2/89	03/14/89	03/14/89	08/2/89
PARAMETER (ug/l)								
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.2 p	3.7 p	3.6 p	3.5 p	ND	4.0 p	3.4 p	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	ND	ND	ND	7.2 J	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	ND	ND	ND	7.2	ND	ND	ND q	ND
Total Tetradecanoic Acid	ND	ND	ND	ND	ND	840	ND	ND
Other compounds	ND	ND	ND	ND	ND	68	ND	ND
Unknown compounds	ND	ND	ND	ND	110	1005	ND	120
TOTAL NON-TARGETED BASE NEUTRALS	ND	ND	ND	ND	110	1913	ND	120

NOTES: J - Detected below reporting limit or is an estimated concentration.
p - Detected at 3 times less than the value in the method blank. Result negated as per NJDEP QAS directive.
q - Surrogate recovery was outside standard QC limits.
ND - Not detected.
*** - Excludes compounds detected in laboratory method blank (p); includes compounds detected at trace concentration

TABLE 24

SUMMARY OF BASE/NEUTRAL ANALYTICAL TESTING - STREAM SEDIMENT RESULTS

TABLE 24: SUMMARY OF BASE/NEUTRAL ANALYTICAL TESTING - STREAM SEDIMENT RESULTS
BY EPA METHOD 8270 + 15
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	FIELD ** BLANK	FIELD ** BLANK
DATE SAMPLED:	03/14/89	03/14/89	03/14/89	03/14/89	08/2/89	03/14/89	03/14/89	08/2/89
SAMPLE DEPTH (feet):	.5 - 1.0	.5 - 1.0	.5 - 1.0	.5 - 1.0	0 - 1.0	.5 - 1.0	-	-
PARAMETER (ug/kg)								
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	200 J	310 J	690 J	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronapthalene	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	490 J	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	430 J	1300 J	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	610 J	1300 J	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	600 J	4900	10000	ND	1800 J	1000 J	ND	ND
Anthracene	140 J	1200 J	2600 J	ND	490 J	ND	ND	ND
Di-n-butyl phthalate	680 J	ND	2300 JB	380 JB	380 J	1800 JB	3.6 Jp	ND
Fluoranthene	800 J	5200	14000	ND	4000	2800 J	ND	ND
Pyrene	700 J	6100	11000	ND	3500	2800 J	ND	ND
Butyl benzyl phthalate	ND	920 J	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	380 J	3100	6400	ND	1600 J	1500 J	ND	ND
bis(2-Ethylhexyl)phthalate	1100 J	55000	54000	22000	520000 B*	74000	ND	ND
Chrysene	560 J	4300	6500	ND	2500 J	1800 J	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	540 JL	6400 L	8200 L	ND	3800 L	2300 JL	ND	ND
Benzo(k)fluoranthene	540 JL	6400 L	8200 L	ND	3800 L	2300 JL	ND	ND
Benzo(a)pyrene	300 J	2900 J	4700	ND	1500 J	1200 J	ND	ND
Indeno(1,2,3-c,d)pyrene	ND	1500 J	2500 J	ND	550 J	950 J	ND	ND
Dibenzo(a,h)anthracene	ND	430 J	1400 J	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	1700 J	3300 J	ND	710 J	950 J	ND	ND
TOTAL TARGETED BASE NEUTRALS ***	6000	95490	130190	22380	540830	91100	ND	ND
NON-TARGETED BASE NEUTRALS								
Total Steroid compounds	ND	40200	ND	ND	ND	ND	ND	ND
Total Sulfur	2200	55000	9800	ND	ND	34000	ND	ND
Total Alkane compounds	3000	51000	ND	ND	197000	ND	ND	ND
Total Anthracene compounds	ND	ND	4200	ND	ND	ND	ND	ND
Total Methyl phenol	8400	ND	ND	ND	ND	ND	ND	ND
Total Aldehyde compounds	ND	13000	ND	ND	24000	ND	ND	ND
Total Alkanoic acid	7200	ND	ND	ND	ND	ND	ND	ND
Total Other compounds	2200	7400	11000	ND	25000	ND	ND	ND
Total Unknown compounds	21000	94000	9900	ND	134000	79500	ND	120
TOTAL NON-TARGETED BASE NEUTRALS	44000	260600	34900	ND	380000	113500	ND	120

NOTES:
- J - Detected below reporting limit or is an estimated concentration.
- p - Compound also detected in laboratory method blank.
- B - Compound also detected in the laboratory method blank, concentration in this sample is at least 5 times greater than concentrations found in laboratory method blank.
- L - Components are not separable using this method and are therefore quantified together.
- ND - Not detected.
- B* - The concentration of this compound in the method blank is between 3 and 5 times the CRDL. Based on NJDEP Tier I guidelines, this value is qualified and the cooresponding method blank is rejected.
- ** - Analyzed by EPA Method 625 and reported in ug/l.
- *** - Excludes compounds detected in laboratory method blank (p), includes compounds detected at trace concentrations (J) and (B) Also includes one of the two compounds that have been quantified together (L).

TABLE 25

SUMMARY OF PRIORITY POLLUTANT METALS TESTING - SURFACE WATER RESULTS

TABLE 25: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - SURFACE WATER RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	FIELD BLANK	FIELD BLANK
DATE SAMPLED:	03/14/89	03/14/89	03/14/89	03/14/89	08/2/89	03/14/89	03/14/89	08/2/89
PARAMETER (ug/l)								
Antimony	ND	ND	ND	22.8 J	ND	ND	ND	ND
Arsenic	ND	ND	2.4 J	ND	10	15.9	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	22.2 J	ND	ND
Chromium	ND	ND	8.0 J	ND	ND	231	ND	ND
Copper	16.7 J	5.3 J	22.1 J	6.7 J	ND	405	ND	ND
Lead	20.7	ND	87.2	2.7 J	6.0	1340	ND	ND
Mercury	ND	ND	ND	ND	ND	2.8	ND	ND
Nickel	ND	ND	ND	ND	ND	60.8 J	ND	ND
Selenium	ND	ND	ND	ND	ND	7.1	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	96.4	4.2 J	152	23.0	60	2370	ND	ND

NOTES: J - Detected below reporting limit.
ND - Not detected.

TABLE 26

SUMMARY OF PRIORITY POLLUTANT METALS TESTING - STREAM SEDIMENT RESULTS

TABLE 26: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - STREAM SEDIMENT RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	FIELD * BLANK	FIELD ** BLANK
DATE SAMPLED:	03/14/89	03/14/89	03/14/89	03/14/89	08/2/89	03/14/89	03/14/89	08/2/89
SAMPLE DEPTH (feet):	.5 - 1.0	.5 - 1.0	.5 - 1.0	.5 - 1.0	0 - 1.0	.5 - 1.0	-	-
PARAMETER (mg/kg)								
Antimony	ND	ND	64.3	9.5 J	ND	ND	ND	ND
Arsenic	4.9	8.0	5.2	5.6	14	25.7	ND	ND
Beryllium	0.39 J	ND	0.35 J	0.65 J	0.8	0.39 J	ND	ND
Cadmium	ND	5.0	ND	1.5	2.1	3.0	ND	ND
Chromium	9.9	33.7	24.7	25.1	27	34.7	ND	ND
Copper	30.4	87.5	36.3	27.6	56	69.0	ND	ND
Lead	65.4	655	199	67.6	156	503	ND	ND
Mercury	ND	2.5	0.5	0.3	11	21	ND	ND
Nickel	6.5 J	18.9 J	17.1	15.2	19	18.3	ND	ND
Selenium	.70 J	0.93 J	0.39 J	ND	ND	0.35 J	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	46.3	547	228	74.2	282	336	ND	ND

NOTES: J - Detected below reporting limit.
NA - Not analyzed.
ND - Not detected.
* - Reported in ug/l.
** - Reported in mg/l.

TABLE 27

SUMMARY OF POLYCHLORINATED BIPHENYLS (PCBS) TESTING - STREAM SEDIMENT AND SURFACE WATER RESULTS

TABLE 27: SUMMARY OF POLYCHLORINATED BIPHENYLS (PCBs) TESTING - STREAM SEDIMENT/ SURFACE WATER RESULTS
EPA METHOD 608
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	SW-4	SW FIELD BLANK	SS-4 ♦	SS FIELD BLANK
DATE SAMPLED:	5/9/89	5/9/89	5/9/89	5/9/89
SAMPLE DEPTH (feet):	-	-	.5 - 1.0	-
PARAMETER (ug/l)				
Aroclor-1016	ND	ND	ND	ND
Aroclor-1221	ND	ND	ND	ND
Aroclor-1232	ND	ND	ND	ND
Aroclor-1242	ND	ND	ND	ND
Aroclor-1248	ND	ND	ND	ND
Aroclor-1254	ND	ND	ND	ND
Aroclor-1260	ND	ND	ND	ND

NOTES: ND - Not detected.
- - Not applicable.
♦ - Reported in ug/kg.

TABLE 28

SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS

TABLE 20: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	2/17/89		2/17/89		2/17/89		2/17/89	
	Mass (ng)	Conc.(ng/m3)*	Mass (ng)	Conc.(ng/m3)*	Mass (ng)	Conc.(ng/m3)*	Mass (ng)	Conc.(ng/m3)*
PARAMETER (ng)								
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
* - Calculated based on a sampling flow rate and reported concentration; refer to Appendix F for supporting documentation.
*** - Total includes compounds detected at trace concentrations (J), excludes compounds found in lab blank (p).

FOOTNOTES: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's, "B" samples are duplicates of the "A" samples. Since "A" samples were found to have none of the above parameters the duplicate samples ("B" samples) were not analyzed.

TABLE 2B: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	3/14/89		3/14/89		3/14/89		3/14/89	
PARAMETER	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	3.2 Jp	335.2 p	3.2 Jp	363.5 p	3.8 Jp	432.1 p	8.5 Jp	827.5 p
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
J - Trace concentrations detected below reporting limit.
p - Compound also found in laboratory blank.
* - Calculated based on sampling flow rate and reported concentration; refer to Appendix F for supporting documentation.
*** - Total includes compounds detected at trace concentrations (J), excludes compounds found in lab blank (p).

FOOTNOTE: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's; the "B" samples are duplicates of the "A" samples. Since "A" samples were found to have none of the above parameters the duplicate samples ("B" samples) were not analyzed.

TABLE 28: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	4/12/89		4/12/89		4/12/89		4/12/89	
PARAMETER	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	5.8 p	540.6 p	3.4 Jp	297.9 p	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
J - Trace concentrations detected below reporting limit.
p - Compound also found in laboratory blank.
* - Calculated based on sampling flow rate and reported concentration; refer to Appendix F for supporting documentation.
*** - Total includes compounds detected at trace concentrations (J), excludes compounds found in lab blank (p).

FOOTNOTE: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's; the "B" samples are duplicates of the "A" samples. Since "A" samples were found to have none of the above parameters the duplicate samples ("B" samples) were not analyzed.

TABLE 2B: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1-VA		AQ-2-VA Front		AQ-2-VA Back (VB)		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	5/22/89		5/23/89		5/23/89		5/22/89		5/23/89	
PARAMETER	Mass (ng)	Conc. ng/m3•	Mass (ng)	Conc. ng/m3•	Mass (ng)	Conc. ng/m3•	Mass (ng)	Conc. ng/m3•	Mass (ng)	Conc. ng/m3•
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	4.1 p	390.2 p	2.5 p	242.8 p	ND	ND	ND	ND	2.6 p	250.1 p
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	5.3 p	504.4 p	4.5 p	437.1 p	2.5 p	242.8 p	4.3 p	445.0 p	4.8 p	461.7 p
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS •••	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NON-TARGETED VOLATILE ORGANICS										
Acetone	161	15322.8	162	15734.3	ND	ND	159	16455.5	161	15485.5
Total Xylenes	ND	ND	755	73329.4	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	161	15322.8	917	89063.7	ND	ND	159	16455.5	161	15485.5

NOTES: ND - Not detected.
p - Compound also found in laboratory blank.
• - Calculated based on sampling flow rate and reported mass; refer to Appendix F for supporting documentation.
••• - Total includes compounds detected at trace concentrations (J), excludes compounds found in lab blank (p).

FOOTNOTE: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's; the "B" samples are duplicates of the "A" samples. Since "A" samples were found to have none of the above parameters the duplicate samples ("B" samples) were not analyzed. Although acetone was detected in 1-VA, 3-VA and 4-VA the "B" (duplicate) samples were not analyzed because the laboratory believed the occurance of the acetone was due to field sampling contamination. Acetone was not used during sampling.

TABLE 28: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	6/19/89		6/19/89		6/19/89		6/19/89	
PARAMETER	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	12 p	1290.0 p	12 p	1284.0 p	14 p	1434.7 p	12 p	1278.1 p
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
p - Compound also found in laboratory blank.
* - Calculated based on sampling flow rate and reported concentration;
refer to Appendix F for supporting documentation.
*** - Total includes compounds detected at trace concentrations (J), excludes compounds found in lab blank (p).

FOOTNOTE: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's;
the "B" samples are duplicates of the "A" samples. Since "A"
samples were found to have none of the above parameters the duplicate samples ("B" samples)
were not analyzed.

TABLE 28: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	7/18/89		7/18/89		7/18/89		7/18/89	
PARAMETER	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
* - Calculated based on sampling flow rate and reported concentration; refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's; the "B" samples are duplicates of the "A" samples. Since "A" samples were found to have none of the above parameters the duplicate samples ("B" samples) were not analyzed.

TABLE 28: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	8/31/89		8/31/89		8/31/89		8/31/89	
PARAMETER	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	20 p	1861.8 p	27 p	2683.7 p	26 p	2650.0 p	20 p	2038.5 p
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
p - Compound also found in laboratory blank.
* - Calculated based on sampling flow rate and reported concentration; refer to Appendix F for supporting documentation.
*** - Total includes compounds detected at trace concentrations (J), excludes compounds found in lab blank (p).

FOOTNOTE: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's; the "B" samples are duplicates of the "A" samples. Since "A" samples were found to have none of the above parameters the duplicate samples ("B" samples) were not analyzed.

TABLE 2B: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	9/18/89		9/18/89		9/18/89		9/18/89	
PARAMETER	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	15 p	1562.5 p	9.9 p	1028.7 p	22 p	2205.6 p	26 p	2555.0 p
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
p - Compound also found in laboratory blank.
* - Calculated based on sampling flow rate and reported concentration; refer to Appendix F for supporting documentation.
*** - Total includes compounds detected at trace concentrations (J), excludes compounds found in lab blank (p).

FOOTNOTE: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's; the "B" samples are duplicates of the "A" samples. Since "A" samples were found to have none of the above parameters the duplicate samples ("B" samples) were not analyzed.

TABLE 2B: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	10/09/89		10/09/89		10/09/89		10/09/89	
PARAMETER	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	9.3 Jp	991 p	8.9 p	962.2 p	8.0 Jp	798.6 p	9.6 Jp	951.5 p
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOLATILE ORGANICS ***	ND	ND	ND	ND	ND	ND	ND	ND
NON-TARGETED VOLATILE ORGANICS								
Unknown	37 J	3942.9	ND	ND	ND	ND	ND	ND
Dimethylester carbonodithiotic acid	62 J	6607.0	ND	ND	ND	ND	ND	ND
TOTAL NON-TARGETED VOLATILE ORGANICS	99	10549.42	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
p - Compound also found in laboratory blank.
J - Trace concentrations detected below reporting limit.
* - Calculated based on sampling flow rate and reported mass; refer to Appendix X for supporting documentation.
*** - Total includes compounds detected at trace concentrations (J), excludes compounds found in lab blank (p).

FOOTNOTE: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's; the "B" samples are duplicates of the "A" samples. Since "A" samples were found to have none of the above parameters the duplicate samples ("B" samples) were not analyzed. Although acetone was detected in 1-VA, 3-VA and 4-VA the "B" (duplicate) samples were not analyzed because the laboratory believed the occurance of the acetone was due to field sampling contamination. Acetone was not used during sampling.

TABLE 28: SUMMARY OF VOLATILE ORGANICS ANALYTICAL TESTING - AIR SAMPLING RESULTS
EPA METHOD 624
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
DATE SAMPLED:	11/1/89		11/1/89		11/1/89		11/1/89	
	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*	Mass (ng)	Conc. ng/m3*
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1.4 Jp	133.1 p	1.3 Jp	124.6 p	ND	ND	23 p	2366.3 p
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TARGETED VOC ***	ND	ND	ND	ND	ND	ND	ND	ND
NON-TARGETED VOC								
Unknown	ND	ND	ND	ND	21	2125.9	319	32818.5
Carbon oxide sulfide	ND	ND	51.7	4956.7	94	9515.7	89	9156.4
TOTAL NON-TARGETED VOC	99	10549.42	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
p - Compound also found in laboratory blank.
J - Trace concentrations detected below reporting limit.
* - Calculated based on sampling flow rate and reported mass;
refer to Appendix F for supporting documentation.
*** - Total includes compounds detected at trace concentrations (J), excludes compounds found in lab blank (p)

FOOTNOTE: Chain-of-Custody indicated that samples 1-VA thru 4-VB were to be analyzed for VO's;
the "B" samples are duplicates of the "A" samples. Since "A"
samples were found to have none of the above parameters the duplicate samples ("B" samples)
were not analyzed.

TABLE 29

SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1H ,MA,MB		AQ-2H,MA,MB		AQ-3H,MA,MB		AQ-4H,MA,MB	
DATE SAMPLED:	2/15,16/89		2/15,16/89		2/15,16/89		2/15,16/89	
PARAMETER	Mass (ug)	Conc. ug/m3*	Mass (ug)	Conc. ug/m3*	Mass (ug)	Conc. ug/m3*	Mass (ug)	Conc. ug/m3*
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	0.3	1.6	ND	ND	ND	ND
Chromium	ND	ND	1.0	5.2	0.4	2.1	0.4	2.1
Copper	ND	ND	6.5	33.8	ND	ND	ND	ND
Lead	ND	ND	6.0	31.2	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	1.4	7.3	27.0	140.3	1.4	7.3	1.0	5.2

NOTES: ND - Not detected.
* - Calculated based on sampling flow rate and lab reported mass;
refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury); where "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, and Thallium and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1H through 4H.

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1H,MA,MB		AQ-2H,MA,MB		AQ-3H,MA,MB		4H,MA,MB	
DATE SAMPLED:	3/13,15/89		3/13,15/89		3/13,15/89		3/13,15/89	
PARAMETER	Mass (ug)	Conc. ug/m3*	Mass (ug)	Conc. ug/m3*	Mass (ug)	Conc. ug/m3*	Mass (ug)	Conc. ug/m3*
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	0.2	1.0	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	0.039 J	0.2
Chromium	0.91	4.7	0.77	4.0	0.58	3.0	1.0	5.2
Copper	0.90	4.7	0.57	3.0	0.74	3.9	2.0	10.4
Lead	ND	ND	0.25	1.3	0.32	1.7	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	0.34 J	1.8	0.077 J	0.4	0.085 J	0.4	0.25 J	1.3
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	0.049	0.3	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	1.2	6.3	0.66	3.4	1.2	6.3	2.7	14.1

NOTES: ND - Not detected.
J - Trace concentration below reporting limits.
* - Calculated based on sampling flow rate and lab reported mass; refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury), where "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, and Thallium and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1H through 4H. On the chain of custody two samples were recieved labeled "3H". The laboratory assigned one of the two samples an ID of "4H".

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1H,MA,MB		AQ-2H,MA,MB		AQ-3H,MA,MB		AQ-4H,MA,MB	
DATE SAMPLED:	4/10,11/89		4/10,11/89		4/10,11/89		4/10,11/89	
PARAMETER	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	0.01 J	0.1	0.01 J	0.1	ND	ND	ND	ND
Cadmium	0.062	0.3	0.078	0.4	0.068	0.4	0.055	0.3
Chromium	ND	ND	1.2	6.2	0.84	4.4	ND	ND
Copper	ND	ND	3.9	20.2	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	0.091 J	0.5	0.58	3.0	0.064 J	0.3	0.064 J	0.3
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	0.064 J	0.3	0.094 J	0.5	0.096 J	0.5	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	0.38	2.0	2.2	11.4	0.83	4.3	0.47	2.4

NOTES: ND - Not detected.
J - Trace concentration below reporting limits.
* - Calculated based on sampling flow rate and lab reported mass; refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury), where "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, Thallium, and Lead and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1H through 4H.

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1H,MA,MB		AQ-2H,MA,MB		AQ-3H,MA,MB		AQ-4H,MA,MB	
DATE SAMPLED:	5/24,26/89		5/25,30/89		5/24,26/89		5/25,30/89	
PARAMETER	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND
Phosphorous	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not Detected.
J - Trace concentration below reporting limits.
* - Calculated based on sampling flow rate and lab reported mass; refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury), where "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, Thallium, and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1h through 4H.

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1H,MA,MB		AQ-2H,MA,MB		AQ-3H,MA,MB		AQ-4H,MA,MB	
DATE SAMPLED:	6/20/89		6/20/89		6/20/89		6/20/89	
PARAMETER	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	0.5	2.6	0.4	2.1	0.4	2.1	0.4	2.1
Copper	ND	ND	ND	ND	0.3	1.6	ND	ND
Lead	ND	ND	ND	ND	ND	ND	1.0	5.2
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	0.5	2.6	0.5	2.6	0.5	2.6

NOTES: ND - Not detected.
J - Trace concentration below reporting limits.
* - Calculated based sampling flow rate and lab reported mass; refer to Appendix F fot supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury), where "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, Thallium, and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1H through 4H.

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1H,MA,MB		AQ-2H,MA,MB		AQ-3H,MA,MB		AQ-4H,MA,MB	
DATE SAMPLED:	7/19,20/89		7/19,20/89		7/19,20/89		7/19,20/89	
PARAMETER	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	1.0	5.2	1.3	6.8	2.0	10.4	1.0	5.2
Copper	3.0	15.6	2.0	10.4	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	1.0	5.2	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
J - Trace concentration below reporting limits.
* - Calculated based on sampling flow rate and lab reported mass; refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury), where "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, Thallium, and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1H through 4H.

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1H,MA,MB		AQ-2H,MA,MB		AQ-3H,MA,MB		AQ-4H,MA,MB	
DATE SAMPLED:	8/29,30/89		8/29,30/89		8/29,30/89		8/29,30/89	
PARAMETER	Mass (ug)	Conc.ug/m3♦	Mass (ug)	Conc.ug/m3♦	Mass (ug)	Conc.ug/m3♦	Mass (ug)	Conc.ug/m3♦
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	0.6	3.1	0.5	2.6	ND	ND	0.6	3.1
Copper	5.6	29.2	2.9	15.1	2.7	14.0	1.6	8.3
Lead	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	1.1	5.7	2.6	13.5	ND	ND	0.5	2.6

NOTES: ND - Not detected.
J - Trace concentration below reporting limits.
♦ - Calculated based on sampling flow rate and lab reported mass; refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury), all of the "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, Thallium, and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1H through 4H.

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1H,MA,MB		AQ-2H,MA,MB		AQ-3H,MA,MB		AQ-4H,MA,MB	
DATE SAMPLED:	9/19,20/89		9/19,20/89		9/19,21/89		9/19,21/89	
PARAMETER	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND d	ND	ND d	ND	ND d	ND	ND d	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND
Lead	0.076	0.4	0.078	0.4	0.29	1.5	0.055	0.3
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: ND - Not detected.
J - Trace concentration below reporting limit.
d - Arsenic value reported at a 10x dilution.
* - Calculated based on sampling flow rate and lab reported mass; refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury), of the "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, Thallium, and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1H through 4H.

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering, Inc.
November 1989

SAMPLE ID:	AQ-1H,MA,MB		AQ-2H,MA,MB		AQ-3H,MA,MB		AQ-4H,MA,MB	
DATE SAMPLED:	10/10,11/89		10/10,11/89		10/10,11/89		10/10,11/89	
PARAMETER	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND d	ND	ND d	ND	ND d	ND	ND d	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	1.4	7.3	1.4	7.3	1.6	8.4	1.5	7.8
Copper	3.3	17.16	4.4	22.92	4.9	25.58	.3	1.56
Lead	.5	2.60	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	1.4	7.28	.7	3.65	.7	3.65	.7	3.65

NOTES: ND - Not detected.
J - Trace concentration below reporting limit.
d - Arsenic value reported at a 10x dilution.
* - Calculated based on sampling flow rate and lab reported mass; refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury), of the "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, Thallium, and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1H through 4H.

TABLE 29: SUMMARY OF PRIORITY POLLUTANT METALS TESTING - AIR SAMPLING RESULTS
L.E. CARPENTER, WHARTON, NEW JERSEY.

SAMPLE ID:	AQ-1-VA		AQ-2-VA		AQ-3-VA		AQ-4-VA	
	1H,MA,MB		2H,MA,MB		3H,MA,MB		4H,MA,MB	
DATE SAMPLED:	11/2/89		11/2/89		11/2/89		11/2/89	
	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*	Mass (ug)	Conc.ug/m3*
PARAMETER								
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	ND	ND	1	5.22	ND	ND

NOTES: ND - Not detected.
J - Trace concentration below reporting limit.
* - Calculated based on sampling flow rate and lab reported mass; refer to Appendix F for supporting documentation.

FOOTNOTE: Chain-of-Custody indicated that samples 1MA thru 4MB were to be tested for all Priority Pollutant Metals (except mercury), of the "B" samples were duplicates of the "A" samples. Instead of analyzing the "B" samples as duplicates, the "B" samples were used for detection of Arsenic, Selenium, Thallium, and the "A" samples were analyzed for the remaining Priority Pollutant Metals (except for mercury). Mercury samples were designated as 1H through 4H.

TABLE 30

SUMMARY OF GROUNDWATER ELEVATIONS - OCTOBER 13, 1989

TABLE 30: SUMMARY OF GROUNDWATER ELEVATIONS
OCTOBER 13, 1989
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering Inc.
November, 1989

WELL #	DEPTH TO WATER (ft.)	WATER ELEVATION (ft.)*
MW-1	14.25	624.93
MW-2	8.40	625.17
MW-3	7.60	624.96
MW-4	7.20	625.30
MW-5	6.20	626.22
MW-6	7.35	624.65
MW-7	5.60	625.08
MW-8	4.80	623.99
MW-9	6.10	624.08
MW-10	7.80	622.16
MW-11D	4.45	627.97
MW-11I	7.45	625.37
MW-11S	PRODUCT	---
MW-12I	7.70	625.36
MW-12S	7.80	625.38
MW-13I	5.55	625.11
MW-13S	6.20	623.03
MW-14D	.65	627.88
MW-14I	3.25	624.98
MW-14S	3.70	624.71
MW-15I	11.00	625.66
MW-15S	11.10	625.67
MW-16I	8.75	626.21
MW-16S	8.15	626.32
MW-17D	8.90	625.96
MW-17S	8.80	625.99
MW-18D	3.50	627.27
MW-18I	5.55	625.49
MW-18S	6.00	625.26
GEI-1I	5.20	625.58
GEI-2I	11.25	626.95
GEI-2S	11.25	626.42
GEI-3I	13.40	626.45
PROD	9.76	625.65

NOTES: - Depth to water measured from inside pvc or stainless steel casing

- Elevations based on Location and Elevation of Monitor Wells, L.E. Carpenter Proper by Recon, Inc. dated 10/31/89

* Relative to mean sea level.

TABLE 31

SUMMARY OF GROUNDWATER ELEVATIONS - OCTOBER 24, 1989

TABLE 31: SUMMARY OF GROUNDWATER ELEVATIONS
OCTOBER 24, 1989
L.E. CARPENTER, WHARTON, NEW JERSEY.

GeoEngineering Inc.
November, 1989

WELL #	DEPTH TO WATER (ft.)	WATER ELEVATION (ft.)*
MW-1	11.52	627.66
MW-2	6.84	626.73
MW-3	7.83	624.73
MW-4	5.24	627.26
MW-5	5.10	627.32
MW-6	4.79	627.21
MW-7	3.53	627.15
MW-8	2.15	626.64
MW-9	2.45	627.73
MW-10	5.28	624.68
MW-11D	2.39	630.03
MW-11I	5.79	627.03
MW-11S	PRODUCT	---
MW-12I	5.88	627.18
MW-12S	6.3	626.88
MW-13I	4.08	626.58
MW-13S	4.80	626.43
MW-14D	ARTESIAN	---
MW-14I	1.78	626.45
MW-14S	2.39	626.02
MW-15I	19.8	616.86
MW-15S	9.4	627.37
MW-16I	6.90	628.06
MW-16S	6.35	628.12
MW-17D	6.95	627.91
MW-17S	6.60	629.19
MW-18D	1.50	629.27
MW-18I	4.30	626.74
MW-18S	5.10	626.16
GEI-1I	3.95	626.83
GEI-2I	9.25	628.95
GEI-2S	9.40	628.27
GEI-3I	11.20	628.65
PROD	7.90	627.51

NOTES: - Depth to water measured from inside pvc or stainless steel casing

- Elevations based on Location and Elevation of Monitor Wells, L.E. Carpenter Proper by Recon, Inc. dated 10/31/89

* Relative to mean sea level.

TABLE 32

SUMMARY OF HYDRAULIC CONDUCTIVITY VALUES

Table 32: Summary of Hydraulic Conductivity Values
L. E. Carpenter, Wharton, New Jersey.

GeoEngineering, Inc.
November, 1989

INTERMEDIATE WELL RESULTS

Well #	Test 1 (cm/sec)	Test 2 (cm/sec)	Δ (cm/sec)	$\bar{x}_w$ (cm/sec)
MW-11i	1.70×10^{-2}	2.02×10^{-2}	0.32×10^{-2}	1.86×10^{-2}
MW-12i	2.53×10^{-2}	3.40×10^{-2}	0.87×10^{-2}	2.97×10^{-2}
MW-15i	3.32×10^{-2}	4.25×10^{-2}	0.93×10^{-2}	3.79×10^{-2}
MW-16i	3.80×10^{-2}	3.40×10^{-2}	0.40×10^{-2}	3.60×10^{-2}
MW-18i	1.03×10^{-3}	1.10×10^{-3}	0.07×10^{-3}	1.07×10^{-3}
		$\bar{x}_i = 2.47 \times 10^{-2}$ cm/sec		
		$s = 1.52 \times 10^{-2}$ cm/sec		

DEEP WELLS

Well #	Test 1 (cm/sec)	Test 2 (cm/sec)	Δ (cm/sec)	$\bar{x}_w$ (cm/sec)
MW-11d	4.75×10^{-3}	5.09×10^{-3}	0.34×10^{-3}	4.92×10^{-3}
MW-17d	1.54×10^{-2}	1.54×10^{-2}	0.00	1.54×10^{-2}
MW-18d	1.40×10^{-2}	1.25×10^{-2}	0.15×10^{-2}	1.33×10^{-2}
		$\bar{x}_d = 1.12 \times 10^{-2}$ cm/sec		
		$s = 5.54 \times 10^{-3}$ cm/sec		

MEAN HYDRAULIC CONDUCTIVITY

$$\bar{x} = \frac{\bar{x}_i + \bar{x}_d}{2} = 1.8 \times 10^{-2} \text{ cm/sec}$$

NOTES:

Δ - Difference, Test 1, Test 2

$\bar{x}_w$ - Mean Hydraulic Conductivity for indicated well.

s - Standard Deviation for intermediate and deep means.

$\bar{x}_i$ - Mean Hydraulic Conductivity - Intermediate zone

$\bar{x}_d$ - Mean Hydraulic Conductivity - Deep zone

$\bar{x}$ - Mean Hydraulic Conductivity for aquifer.

TABLE 33

SUMMARY OF ASSESSED CRITICAL CONTAMINANTS

Table 33: Summary of Assessed Critical Contaminants
LE Carpenter, Wharton, New Jersey

Compound	Matrix	Occurrence/ # Samples	Concentration range
Arochlor 1254	Soil **	7/14	ND-14000 ug/kg
	Sediment	0/1	ND
	Surface Water	0/1	ND
	Groundwater	0/54	ND
Benzo (a) pyrene	Soil **	6/23	ND-27000 ug/kg (Benzo(a)anthracene)
	Sediment	5/6	ND-14000 ug/kg (Phenanthrene)
	Surface Water	0/6	ND
	Groundwater	0/54	ND
Bis (2-ethylhexyl) phthalate	Soil **	23/23	400-15000000 ug/kg
	Sediment	6/6	1100-520000 ug/kg
	Surface Water	1/6	ND-7.2 ug/L
	Groundwater	20/54	ND-62000 ug/L
Ethylbenzene	Soil **	0/30	ND
	Sediment	1/6	ND-17 ug/kg
	Surface Water	1/6	ND-3.5 ug/L
	Groundwater	13/54	ND-26000 ug/L
	Air	0/40	ND
Methylene Chloride	Soil **	25/30	ND-230 ug/kg
	Sediment	5/6	ND-59 ug/kg
	Surface Water	3/6	ND-3.8 ug/L
	Groundwater	16/54	ND-8800 (B) ug/L
	Air	0/40	ND
Xylene	Soil **	2/30	ND-19 ug/kg
	Sediment	1/6	ND-220 ug/kg
	Surface Water	1/6	ND-44 ug/L
	Groundwater	17/54	ND-120000 ug/L
	Air	0/40	ND

NOTES: * - Totals exclude compounds detected in laboratory method blank, (p), and include compounds detected at trace concentrations (J) and (B).
** - Soil concentrations and occurrences represent surficial samples only.

Table 33: Summary of Assessed Critical Contaminants
LE Carpenter, Wharton, New Jersey

Compound	Matrix	Occurrence/ * # Samples	Concentration Range
Cadmium	Soil **	11/21	ND-49.6 mg/kg
	Sediment	4/6	ND-5.0 mg/kg
	Surface Water	1/6	ND-22.2 ug/L
	Groundwater	0/54	ND
	Air	6/40	ND-1.6 ug/m3
Chromium	Soil **	21/21	6.7-493 mg/kg
	Sediment	6/6	9.9-34.7 mg/kg
	Surface Water	2/6	ND-231 ug/L
	Groundwater	4/54	ND-94.5 ug/L
	Air	24/40	ND-10.4 ug/m3
Lead	Soil **	2/21	3.9-6530 mg/kg
	Sediment	6/6	65.4-655 mg/kg
	Surface Water	5/6	ND-1340 ug/L
	Groundwater	2/54	8.3 ug/L
	Air	8/40	ND-31.2 ug/m3
Mercury	Soil **	12/21	ND-3.4 mg/kg
	Sediment	2/6	ND-.21 mg/kg
	Surface Water	1/6	ND-2.8 ug/L
	Groundwater	0/54	ND
	Air	0/40	ND

NOTES: * - Totals exclude compounds detected in laboratory method blank, (p), and include compounds detected at trace concentrations (J) and (B).
** - Soil concentrations and occurrences represent surficial samples only.

ADDENDUM TO APPENDIX E

DATA QUALITY SUMMARY

ADDENDUM TO APPENDIX E

DATA QUALITY SUMMARY

The laboratory analyses for the L.E. Carpenter Remedial Investigation were performed by Enseco Erco Laboratory of Cambridge, Massachusetts. The NJDEP Quality Assurance Sections (QAS) summarized their comments on the RI data quality in a Data Validation Review memorandum dated April 26, 1990. Each of these comments have been addressed in Enseco's response dated May 29, 1990. This response also included all additional support data requested by QAS.

The data tables in the revised RI report incorporate the data qualifications as acknowledged by Enseco in the form of footnotes denoting data qualifiers such as excessive hold times, surrogate recoveries outside NJDEP Tier I control limits, and blank contamination. These data qualifiers may render some of the data points unusable, but overall the site has a more than adequate analytical database to characterize the extent of contamination.

Sample Hold Times

Samples with laboratory extraction and analytical holding times in excess of NJDEP Tier I guidelines are flagged in the data tables and are listed by type in Table E-1. Much of the critical analytical data from the RI can be compared to data from the second

TABLE E-1

EXCESSIVE SAMPLE HOLD TIMES

SAMPLE TYPE	VOLATILES	SEMIVOLATILES
Test Pits	3B, 25, 48, 63, 64, 65, 66 67, 71 and 75	2A, 2B, 5A, 5B, 6A, 6B, 7A 7B, 8A, 8B, 50A, 50B, 51B 52, 53, 54, 72, 73, and Field Blanks for 3/23/89, 3/29/89, 4/7/89, and 4/10/89
Hand Auger	1 and Field Blank for 3/28/89	None
Monitor Wells	3, 11i, 13s and Field Blank for 9/20/89	MW-1
Surface Water	1, 2, 3, 4, 5 and 6	None
Sediments	None	None

full round of groundwater sampling completed in January 1990 or to the data from the planned supplemental RI sampling which is to include river and drainage ditch water samples and additional soil samples near TP-2, TP-3, and TP-50.

It should also be noted that holding times for priority pollutant metals could not be checked because the laboratory did not report analysis dates. However, since the holding time for metals is six months and the results, were received within six months, no holding times are believed to have been exceeded.

Xylene Analysis

The samples collected during the early portion of the Remedial Investigation were not analyzed for Xylenes as a target compound. These include volatile organics analysis for test pits 1-33, all Hand Auger samples, surface water, and stream sediments samples. All groundwater samples, and test pits 39-79 included xylene as a targeted analyte. Xylene present in earlier samples was still detected but reported as a tentatively identified (non-targeted) compound which are quantitated by the laboratory differently than targeted compounds. Data tables in the revised Remedial Investigation report have included xylene in list of volatile organics and in the sum of targeted volatile compounds.

Surrogate Recovery

The QAS Data Validation Review memorandum also raised the issue of low surrogate recoveries in base/neutral analyses of soil. Specifically, QAS noted low surrogate recoveries for samples TP-7B, TP-28, TP-63, and HA-2. Because of the elevated levels of bis (2-Ethylhexyl)-phthalate in these samples, the loss of surrogate recovery information is an unavoidable consequence of sample dilution.